

DANGEROUS WASTE PORTION OF THE RESOURCE CONSERVATION AND RECOVERY ACT PERMIT FOR THE TREATMENT, STORAGE, AND DISPOSAL OF DANGEROUS WASTE

Department of Ecology Nuclear Waste Program P.O. Box 47600 Olympia, Washington 98504-7600 Telephone: (360) 407-7132

Issued in accordance with the applicable provisions of the Hazardous Waste Management Act, Chapter 70.105 RCW, and the regulations promulgated thereunder in Chapter 173-303 WAC.

ISSUED TO:

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This Permit, as modified on August 29, 1995, is effective as of September 28, 1995, and shall remain in effect through September 27, 2004, unless revoked and reissued under WAC 173-303-830(3), terminated under WAC 173-303-830(5), or continued in accordance with WAC 173-303-806(7).

ISSUED BY: WASHINGTON STATE DEPARTMENT OF ECOLOGY

Michael Wilson, Manager Nuclear Waste Program Department of Ecology

Date: 8/29/95

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1 2		LIST OF ATTACHMENTS
3 4 5 6 7 8 9	Attachments specified in Permit modification requirements are not subject to the Permit I.E.8., I.E.11., I.E.13., modified specific language.	cuments are attached in their entirety. However, only those portions of the n Parts I through V are enforceable Conditions of this Permit and subject to the juirements of Condition I.C.3. Changes to portions of the Attachments which ermit modification process shall be addressed in accordance with Conditions I.E.15. through I.E.20., and I.E.22. The Department has, as deemed necessary, age in these Attachments. These modifications are described in the Conditions if thereby supersede the language of the Attachment.
11 12	Attachment I	Hanford Federal Facility Agreement and Consent Order, (As Amended)
13 14	Attachment 2	Hanford Facility Legal Description
15 16	Attachment 3	Permit Applicability Matrix
17 18	Attachment 4	Hanford Facility Contingency Plan, Revision 1, June 1993
19 20	Attachment 5	Purgewater Management Plan, July 1990
21 22	Attachment 6	Hanford Well Remediation and Decommissioning Plan, Revision 0
23 24 25	Attachment 7	Policy on Remediation of Existing Wells and Acceptance Criteria for RCRA and CERCLA, June 1990
26 27 28	Attachment 8	616 Nonradioactive Dangerous Waste Storage Facility Part A & Part B Permit Applications, Revision 2, September 1991
29 30	Attachment 9	616 Nonradioactive Dangerous Waste Shipping Lists
31 32 33	Attachment 10	616 Nonradioactive Dangerous Waste Facility Description of Procedures
34 35 36	Attachment 11	183-H Solar Evaporation Basins Closure/Postclosure Plan, Revision 3, June 1991
37 38 39	Attachment 12	Decommissioning Work Plan "Concrete Sampling - 183-H Solar Evaporation Basins" (DWP-H-080-00001) 8-26-91, Revision A-3
40 41 42	Attachment 13	Decommissioning Work Plan "Core Drill Sampling - 183-H Solar Evaporation Basins (Phase I)" (DWP-H-080-00005) 2-8-91, Revision A-1
42 43 44	Attachment 14	"183-H Solar Evaporation Basins Vadose Zone Sampling Plan" (WHC-SD-EN-AP-056) 6-25-91, Revision 0

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1		
2	Attachment 15	Decommissioning Work Plan "Berm Removal for 183-H Solar Evaporation
3	'	Basins" (DWP-H-026-00008) 1-16-91, Revision A-0
4		
5	Attachment 16	300 Area Solvent Evaporator Closure Plan, Revision 3b, September 1992
6	A 44T 4 1 77	0007 C N
7 8	Attachment 17	2727-S Nonradioactive Dangerous Waste Storage Facility Closure Plan,
9		Revision 3, January 1992
10	Attachment 18	305-B Storage Facility Part A and Part B Permit Applications, Revision 2,
11	remonition to	October 1992
12		
13	Attachment 19	Simulated High Level Waste Slurry TSD Closure Plan
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15	Attachment 20	218-E-8 Borrow Pit Demolition Site Closure Plan
16		
17	Attachment 21	200 West Ash Pit Demolition Site Closure Plan
18		
19	Attachment 22	2101-M Pond Closure Plan
20	A. 1	016 D 0 D 1 D 1 O1 D1
21 22	Attachment 23	216-B-3 Expansion Ponds Closure Plans
23	Attachment 24	Hanford Patrol Academy Demolition Site Closure Plan
24		Than to the state of the country benefit of the closure from
25	Attachment 25	105-DR Large Sodoium Fire Facility Closure Plan
26		
27	Attachment 26	304 Concretion Facility Closure Plan
28		
29	Attachment 27	Permit Modification Schedule

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INTRODUCTION

Pursuant to Chapter 70.105 Revised Code of Washington (RCW), the Hazardous Waste Management Act (HWMA) of 1976, as amended, Chapter 70.105D RCW, the Model Toxics Control Act, and regulations promulgated thereunder by the Washington State Department of Ecology (hereafter called the Department), codified in Chapter 173-303 Washington Administrative Code (WAC), Dangerous Waste Regulations, a Dangerous Waste Permit is issued to the U.S. Department of Energy - Richland Operations Office (DOE-RL), (owner/operator), and its contractors (Westinghouse Hanford Company (Westinghouse Hanford) (co-operator), Pacific Northwest Laboratory (PNL) (co-operator), and Bechtel Hanford, Incorporated (BHI) (co-operator)) (hereafter called the Permittees), for the treatment, storage, and disposal of dangerous waste at the Hanford Facility.

This Dangerous Waste Permit, issued in conjunction with the U.S. Environmental Protection Agency's, (hereafter call the Agency) Hazardous and Solid Waste Amendments Portion of the Resource Conservation and Recovery Act Permit for the Treatment, Storage, and Disposal of Hazardous Waste (HSWA Permit), constitutes the Resource Conservation and Recovery Act Permit (RCRA Permit) for the Hanford Facility. Use of the term "Permit" within the Dangerous Waste Permit shall refer to the Dangerous Waste Permit while use of the term "Permit" within the HSWA Permit shall refer to the HSWA Permit. Use of the same term in both the Dangerous Waste Permit and the HSWA Permit, shall have the standard meaning associated with the activities addressed by the Permit in which the term is used. Such meanings shall prevail except where specifically stated otherwise.

The Permittees shall comply with all terms and Conditions set forth in this Permit and those portions of the Attachments that have been specifically incorporated into this Permit. When the Permit and the Attachments (except Attachment 1) conflict, the wording of the Permit will prevail. The Permit is intended to be consistent with the terms and conditions of the Hanford Federal Facility Agreement and Consent Order (FFACO, Attachment 1). The Permittees shall also comply with all applicable State regulations, including Chapter 173-303 WAC.

Applicable state regulations are those which are in effect on the date of issuance, or as specified in subsequent modifications of this Permit. In addition, applicable State regulations include any self-implementing statutory provisions and related regulations which, according to the requirements of the HWMA, as amended, or other law(s), are automatically applicable to the Permittees' dangerous waste—management activities, notwithstanding the Conditions of this Permit.

This Permit is based upon the administrative record, as required by WAC 173-303-840. The Permittees' failure in the application or during the Permit issuance process to fully disclose all relevant facts, or the Permittees' misrepresentation of any relevant facts at any time, shall be grounds for the termination or modification of this Permit and/or initiation of an enforcement action, including criminal proceedings. The Permittees shall inform the Department of any deviation from Permit Conditions or changes in the information on which the application is based which would affect either the Permittees' ability to comply or actual compliance with the applicable regulations or Permit Conditions or which alters any Condition of this Permit in any way.

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The Department shall enforce all Conditions of this Permit for which the State of Washington is 1

- authorized, or which are "state-only" provisions (i.e., Conditions broader in scope or more stringent 2
- than the Federal RCRA program). Any challenges of any Permit Condition may be appealed in 3
- accordance with WAC 173-303-845. In the event that any Permit Condition is challenged by any 4
- Permittee under WAC 173-303-845, the Department may stay any such Permit Condition as it pertains 5
- to all Permittees in accordance with the same terms of any stay it grants to the challenging Permittee. 6
- If such a stay is granted, it will constitute a "stay by the issuing agency" within the meaning of RCW 7
- 8 43.21B.320(1).

9

- 10 This Permit has been developed to allow a step-wise permitting process of the Hanford Facility to
- ensure the proper implementation of the FFACO. In order to accomplish this, this Permit consists of 11
- five (5) Parts. 12

13 14

- Part I, Standard Conditions, contains Conditions which are similar to those appearing in all
- dangerous waste permits. 15

16

- 17 Part II, General Facility Conditions, combines typical dangerous waste Permit Conditions with those
- 18 Conditions intended to address issues specific to the Hanford Facility. Where appropriate, the General
- Facility Conditions apply to all final status dangerous waste management activities at the Facility. 19
- Where appropriate, the General Facility Conditions also address dangerous waste management 20
- activities which may not be directly associated with distinct treatment, storage, and disposal (TSD) 21
- 22 units or which may be associated with many TSD units (i.e., spill reporting, training, contingency
- 23 planning, etc.).

24 25

- Part III, Unit-Specific Conditions for Operating Units, contains those Permit requirements which
- apply to each individual TSD unit operating under final status. Conditions for each TSD unit are 26
- 27 found in a Chapter dedicated to that TSD unit. These unit-specific Chapters contain references to
- 28 Standard and General Conditions (Parts I and II), as well as additional requirements which are intended
- 29 to ensure that each TSD unit is operated in an efficient and environmentally protective manner.

30

- 31 Part IV, Corrective Actions for Past Practice, references the Agency's HSWA Permit. The HSWA
- Permit contains those requirements that apply to the identification of Solid Waste Management Units 32
- (SWMUs) at the Facility and conduct of investigations and remediations at such SWMUs. The 33
- HSWA Permit addresses both SWMUs that are located on the USDOE managed portions of the 34
- Facility as well as SWMUs which are not located on USDOE managed property (i.e., leased lands). 35
- Any SWMUs located on USDOE managed property are, or will be, included in the FFACO and 36
- assigned to operable units. The processes and procedures to be followed, and the schedules of 37
- compliance for investigation and subsequent remediation, will be contained in the FFACO. SWMUs 38
- not located on USDOE managed property will undergo investigations and remediations, as necessary, 39
- in accordance with the requirements and schedules identified in the HSWA Permit. 40

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- It is intended that, once the Department receives authorization from the Agency to implement the 42
- Corrective Action provisions, these requirements will be incorporated into this Part through a Permit 43

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1 modification. Until the Department receives authorization for the Corrective Action provisions of 2 RCRA, the Agency shall maintain regulatory lead for these requirements. 3 4 Part V, Unit-Specific Conditions for Units Undergoing Closure, contains those requirements which 5 apply to those specific TSD units included in this Part that are undergoing closure. In accordance with

Section 5.3. of the Action Plan of the FFACO, all TSD units that undergo closure, irrespective of permit status, shall be closed pursuant to the authorized State Dangerous Waste Program in

6

7

accordance with WAC 173-303-610. Requirements for each TSD unit undergoing closure are found in 8 9

a Chapter dedicated to that TSD unit. These unit-specific Chapters contain references to Standard

10 Conditions (Part I) and General Conditions (Part II), as well as additional requirements which are

intended to ensure that each TSD unit is closed in an efficient and environmentally protective manner. 11 12

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DEFINITIONS

All definitions contained in the FFACO, May 1989, as amended, are hereby incorporated, in their entirety, by reference into this Permit, except that any of the definitions used below, (a) through (n) shall supersede any definition of the same term given in the FFACO. However, the Permit is intended to be consistent with the FFACO.

All definitions contained in WAC 173-303-040 are hereby incorporated, in their entirety, by reference into this Permit, except that any of the definitions used below, (a) through (n), shall supersede any definition of the same term given in WAC 173-303-040.

Where terms are defined in both Chapter 173-303 WAC and the FFACO, the definitions contained in Chapter 173-303 WAC shall supersede any definition of the same term given in the FFACO.

Where terms are not defined in the regulations, the Permit or the FFACO, the meaning associated with such terms shall be defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.

As used in this Permit, words in the masculine gender also include the feminine and neuter genders, words in the singular include the plural, and words in the plural include the singular.

The following definitions apply throughout this Permit:

a. The term "Critical Systems" as applied to determining whether a permit modification is required means those specific portions of a TSD unit's structure or equipment whose failure could lead to the release of dangerous waste into the environment and/or systems which include processes which treat, transfer, store or dispose of regulated wastes. A list identifying the critical systems of a specific TSD unit may be developed and included in Part III or Part V of this Permit. In developing a critical system list, or in the absence of a critical system list, WAC 173-303-830 modifications shall be considered.

b. The term "Contractor(s)" means, unless specifically identified otherwise in this Permit or attachments, Westinghouse Hanford Company (Westinghouse Hanford), Pacific Northwest Laboratory (PNL), and Bechtel Hanford, Inc. (BHI).

4 I

c. The term "Dangerous Waste" means those solid wastes designated under Chapter 173-303 WAC as dangerous or extremely hazardous waste. As used in the Permit, the word "dangerous waste" shall refer to the full universe of wastes regulated by Chapter 70.105 RCW and Chapter 173-303 WAC (including dangerous waste, hazardous waste, extremely hazardous waste, mixed waste and acutely hazardous waste).

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1 2 3 . 4 5	d .	The term "Days" means calendar days unless specifically identified otherwise. Any submittal, notification, or recordkeeping requirement that would be due under the Conditions of this Permit on a Saturday, Sunday, or federal or state holiday shall be due on the following business day unless specifically specified otherwise in the Permit.
6 7 8	e.	The term "Department" means the Washington State Department of Ecology, (with the address as specified on page one (1) of this Permit).
9 10 11 12 13	f.	The term "Director" means the Director of the Washington State Department of Ecology or a designated representative. The Program Manager of the Nuclear Waste Program (with the address as specified on page one of this Permit) is a duly authorized and designated representative of the Director for purposes of this Permit.
14 15 16 17 18	g.	The term "Facility" means all contiguous land, and structures, other appurtenances, and improvements on the land used for recycling, reusing, reclaiming, transferring, storing, treating, or disposing of dangerous waste. The legal and physical description of the Facility is set forth in Attachment 2 of this Permit.
19 20 21	h.	The term "FFACO" means the Hanford Federal Facility Agreement and Consent Order, as amended.
22 23 24 25 26 27 28 29	i.	The term "RCRA Permit" means the Dangerous Waste Portion of the RCRA Permit for the Treatment, Storage, and Disposal of Dangerous Waste (Dangerous Waste Permit) issued by the Washington State Department of Ecology, pursuant to Chapter 70.105 RCW and Chapter 173-303 WAC coupled with the HSWA Portion of the RCRA Permit for the Treatment, Storage, and Disposal of Hazardous Waste (HSWA Permit) issued by the EPA, Region 10, pursuant to 42 U.S.C. 6901 et seq. and 40 CFR Parts 124 and 270.
30 31 32 33	j.	The term "Permittees" means the United States Department of Energy (owner/operator), Westinghouse Hanford Company (co-operator), Bechtel Hanford, Inc. (co-operator), and Pacific Northwest Laboratory (co-operator).
34 35 36 37 38	k.	The term "Raw Data" means the initial value of analog or digital instrument outputs – and/or manually recorded values obtained from measurement tools or personal observation. These values are converted into reportable data (e.g., concentration, percent moisture) via automated procedures and/or manual calculations.
39 40 41 42	I.	The term "Reasonable Times" means normal business hours, hours during which production, treatment, storage, construction, disposal or discharge occurs or times when the Department suspects a violation requiring immediate inspection.
43 44	m.	The term "Significant Discrepancy" in regard to a manifest or shipping paper means a discrepancy between the quantity or type of dangerous waste designated on the

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manifest or shipping paper and the quantity or type of dangerous waste a TSD unit actually receives. A significant discrepancy in quantity is a variation greater than ten (10) percent in weight for bulk quantities (e.g., tanker trucks, railroad tank cars, etc.), or any variation in piece count for nonbulk quantities (i.e., any missing container or package would be a significant discrepancy). A significant discrepancy in type is an obvious physical or chemical difference which can be discovered by inspection or waste analysis (e.g., waste solvent substituted for waste acid).

The term "Unit" (or "TSD unit"), as used in Parts I through V of this Permit, means the contiguous area of land on or in which dangerous waste is placed, or the largest area in which there is a significant likelihood of mixing dangerous waste constituents in the same area. A TSD unit, for purposes of this Permit, is a subgroup of the Facility which has been identified in a Hanford Facility Dangerous Waste Part A Permit Application Form 3.

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1		ACRONYMS
2		·
3		
4	AGENCY	U. S. Environmental Protection Agency, Region X
5	APP	Used to Denote Appendix Page Numbers
6		
7	BHI	Bechtel Hanford, Inc.
8		
9	CERCLA	Comprehensive Environmental Response Compensation and Liability Act of
10		1980 (as Amended by the Superfund Reauthorization Act of 1986)
11	CFR	Code of Federal Regulations
12	CIP	Construction Inspection Plan
13	CLP	Contract Laboratory Program
14		
15	Department	Washington State Department of Ecology
16	DOE-RL	U. S. Department of Energy, Richland Operations Office
17		5, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
18	EC	Emergency Coordinator
19	Ecology	Washington State Department of Ecology
20	ECN	Engineering Change Notice
21	EPA	U.S. Environmental Protection Agency
22		
23	FFACO	Hanford Federal Facility Agreement and Consent Order
24		,
25	HSWA	Hazardous and Solid Waste Amendments of 1984
26	HWMA	Hazardous Waste Management Act
27	,	
28	MTCA	Model Toxics Control Act
29		
30	NCR	Nonconformance Report
31	616 NRDWSF	616 Nonradioactive Dangerous Waste Storage Facility
32		
33	OSWER	Office of Solid Waste and Emergency Response
34		
35	PNL	Pacific Northwest Laboratory
36		
37	QA	Quality Assurance
38	QAPP	Quality Assurance Project Plan
39	QC	Quality Control
40		
41	RCRA	Resource Conservation and Recovery Act of 1976
42	RCW	Revised Code of Washington
43		
44		•

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1	SAP	Sampling and Analysis Plan
2	SARA	Superfund Amendments and Reauthorization Act of 1986
3	SOP	Standard Operating Procedure
4	SWMU	Solid Waste Management Unit
5		
6	TCLP	Toxicity Characteristic Leaching Procedure
7	TSD	Treatment, Storage, and/or Disposal
8		
9	USDOE	U.S. Department of Energy
10		
11	WAC	Washington Administrative Code
12	WAP	Waste Analysis Plan
13	Westinghouse	Westinghouse Hanford Company
14	Hanford	
15		

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I 2		PART I - STANDARD CONDITIONS
3	T 4	
4 5	I.A.	EFFECT OF PERMIT
6 7 8 9 10 11 12 13	I.A.1.a.	The Permittees are authorized to treat, store and dispose of dangerous waste in accordance with the Conditions of this Permit and in accordance with the applicable provisions of Chapter 173-303 WAC (including provisions of the Chapter as they have been applied in the FFACO). Any treatment, storage, or disposal of dangerous waste by the Permittees at the Facility that is not authorized by this Permit, or by WAC 173-303-400 (including provisions of this regulation as they have been applied in the FFACO) for those TSD units not subject to this Permit, and for which a permit is required by Chapter 173-303 WAC, is prohibited.
15 16 17 18 19		TSD units operating or closing under interim status shall maintain interim status until that TSD unit is incorporated into Part III or V of this Permit or until interim status is terminated under WAC 173-303-805(8). Interim status units shall be incorporated into this Permit through the Permit modification process.
20 21 22	I.A.1.b.	The Conditions of this Permit shall be applied to the Facility as defined by the Permit Applicability Matrix (Attachment 3).
23 24 25	I.A.2.	USDOE is responsible for activities which include, but are not limited to, the overall management and operation of the Facility.
26 27 28 29		Westinghouse Hanford is identified as a Permittee for activities subject to the Conditions of this Permit where its agents, employees, or subcontractors have operational and/or management responsibilities and control.
30 31 32 33		PNL is identified as a Permittee for activities subject to the Conditions of this Permit where its agents, employees, or subcontractors have operational and/or management responsibilities and control.
34 35 36 37		BHI is identified as a Permittee for activities subject to the Conditions of this Permit - where its agents, employees, or subcontrators have operational and/or management responsibilities and control.
38 39	I.A.3.	Coordination With The FFACO
40 41 42 43 44		Each TSD unit shall have an application for a final status permit or closure/postclosure plan submitted to the Department in accordance with the schedules identified in the FFACO (Milestone M-20-00). After completion of the permit application or closure plan review, a final permit decision will be made pursuant to WAC 173-303-840. Specific conditions for each TSD unit shall be incorporated into

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1 this Permit in accordance with the Class 3 permit modification procedure identified in 2 Condition I.C.3., at the time identified in the five year Permit Modification Schedule in 3 Attachment 27. 4 5 I.B. PERSONAL AND PROPERTY RIGHTS 6 7 This Permit does not convey property rights of any sort or any exclusive privilege; nor 8 does it authorize any injury to persons or property, or any invasion of other private 9 rights, or any violation of Federal, State, or local laws or regulations. 10 11 I.C. **PERMIT ACTIONS** 12 13 I.C.1. Modification, Revocation, Reissuance, or Termination 14 15 This Permit may be modified, revoked and reissued, or terminated by the Department 16 for cause as specified in WAC 173-303-830(3),(4), and (5). 17 18 I.C.2. Filing of a Request 19 20 The filing of a request for a permit modification, or revocation and reissuance, or 21 termination, or a notification of planned changes or anticipated noncompliance on the part of the Permittees shall not stay the applicability or enforceability of any Condition 22 23 except as provided in WAC 173-303-830(3),(4), and (5). 24 25 I.C.3. Modifications 26 27 Except as provided otherwise by specific language in this Permit, the Permit 28 modification procedures of WAC 173-303-830 shall apply to modifications or changes 29 in design or operation of the Facility or any modification or change in dangerous waste 30 management practices covered by this Permit. As an exception, the Permittees shall 31 provide notifications to the Department required by WAC 173-303-830(4)(a)(i)(A) on 32 a quarterly basis. Each quarterly notification shall be submitted within ten days of the 33 end of the quarter and provide the required information for all such modifications put 34 into effect during that reporting period. Quarterly reporting periods shall be based upon the state Fiscal Year. 35 36 37 I.D. SEVERABILITY 38 39 I.D.1. Effect of Invalidation 40 41 The provisions of this Permit are severable, and if any provision of this Permit, or the 42 application of any provision of this Permit to any circumstance is contested and/or

held invalid, the application of such provision to other circumstances and the

remainder of this Permit shall not be affected thereby. Invalidation of any State

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statutory or regulatory provision which forms the basis for any Condition of this Permit does not affect the validity of any other State statutory or regulatory basis for said Condition.

I.D.2. Final Resolution

In the event that a Condition of this Permit is stayed for any reason, the Permittees shall continue to comply with the related applicable and relevant interim status standards in WAC 173-303-400 until final resolution of the stayed Condition, unless the Department determines compliance with the related applicable and relevant interim status standards would be technologically incompatible with compliance with other Conditions of this Permit which have not been stayed, or unless the FFACO authorizes an alternative action, in which case the Permittees shall comply with the FFACO.

I.E

DUTIES AND REQUIREMENTS

I.E.1. Duty to Comply

The Permittees shall comply with all Conditions of this Permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit issued under WAC 173-303-804. Any Permit noncompliance other than noncompliance authorized by an emergency permit constitutes a violation of Chapter 70.105 RCW, as amended, and is grounds for enforcement action, Permit termination, modification or revocation and reissuance of the Permit, and/or denial of a Permit renewal application.

I.E.2. Compliance Not Constituting Defense

Compliance with the terms of this Permit does not constitute a defense to any order issued or any action brought under Section 3007, 3008, 3013, or 7003 of RCRA (42 U.S.C. Sections 6927, 6928, 6934, and 6973), Section 104, 106(a) or 107 of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) [42 U.S.C. Sections 9604, 9606(a), and 9607], as amended by the Superfund Amendments and Reauthorization Act of 1986 (42 U.S.C. 9601 et seq.), or any other federal, state or local law governing protection of public health or the environment; provided, however, that compliance with this Permit during its term constitutes compliance at those areas subject to this Permit for the purpose of enforcement with WAC 173-303-140, WAC 173-303-180, WAC 173-303-280 through -395, WAC 173-303-600 through -680, WAC 173-303-810, and WAC 173-303-830, except for Permit modifications and those requirements not included in the Permit that become effective by statute, or that are promulgated under 40 CFR Part 268 restricting the placement of dangerous waste in or on the land.

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1 2	I.E.3.	Duty to Reapply
3 4 5	,	If the Permittees wish to continue an activity regulated by this Permit after the expiration date of this Permit, the Permittees must apply for and obtain a new Permit, in accordance with WAC 173-303-806(6).
6 7	I.E.4.	Permit Expiration and Continuation
8 9 10 11 12 13	·	This Permit, and all Conditions herein, will remain in effect beyond the Permit's expiration date until the effective date of the new permit if the Permittees have submitted a timely, complete application for renewal per WAC 173-303-806 and, through no fault of the Permittees, the Department has not made a final Permit determination as set forth in WAC 173-303-840.
15	I.E.5.	Need to Halt or Reduce Activity Not a Defense
16 17 18 19 20		It shall not be a defense in the case of an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the Conditions of this Permit.
21	I.E.6.	Duty to Mitigate
22 23 24 25 26 27		In the event of noncompliance with the Permit, the Permittees shall take all reasonable steps to minimize releases to the environment, and shall carry out such measures as are reasonable to minimize or correct adverse impacts on human health and the environment.
28 29	I.E.7.	Proper Operation and Maintenance
30 31 32 33 34 35 36 37		The Permittees shall at all times properly operate and maintain all facilities and systems of treatment and control which are installed or used by the Permittees to achieve compliance with the Conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls including appropriate quality assurance/quality control procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the Conditions of the Permit.
39	I.E.8.	Duty to Provide Information

The Permittees shall furnish to the Department, within a reasonable time, any relevant

information which the Department may request to determine whether cause exists for

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1 2 3		modifying, revoking and reissuing or terminating this Permit, or to determine compliance with this Permit. The Permittees shall also furnish to the Department, upon request, copies of records required to be kept by this Permit.
4 5 6	I.E.9.	Inspection and Entry
7 8 9		The Permittees shall allow the Department, or authorized representatives, upon the presentation of Department credentials, to:
10 11 12 13	I.E.9.a.	During operating hours and at all other reasonable times, enter and inspect the Facility or any unit or area within the Facility where regulated activities are located or conducted, or where records must be kept under the Conditions of this Permit;
14 15 16	I.E.9.b.	Have access to, and copy, at reasonable times, any records that must be kept under the Conditions of this Permit;
17 18 19 20	I.E.9.c.	Inspect at reasonable times any portion of the Facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,
21 22 23 24	I.E.9.d.	Sample or monitor, at reasonable times, for the purposes of assuring Permit compliance or as otherwise authorized by State law, as amended, for substances or parameters at any location.
25 26	I.E.10.	Monitoring and Records
27 28 29 30 31 32 33	I.E.10.a.	Samples and measurements taken by the Permittees for the purpose of monitoring required by this Permit shall be representative of the monitored activity. Sampling methods shall be in accordance with WAC 173-303-110 or 40 CFR 261, unless otherwise specified in this Permit or agreed to in writing by the Department. Analytical methods shall be as specified in the most recently published test procedure of the documents cited in WAC 173-303-110(3)(a) through (d), unless otherwise specified in this Permit or agreed to in writing by the Department.
35 36 37 38 39 40 41 42 43 44	I.E.10.b.	The Permittees shall retain at the TSD unit(s), or other location approved by the Department, as specified in Parts III or V of this Permit, records of monitoring information required for compliance with this Permit, including calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of reports and records required by this Permit, and records of data used to complete the application for this Permit for a period of at least ten (10) years from the date of the sample, measurement, report, or application, unless otherwise required for certain information by other Conditions of this Permit. This information may be retained on electronic media.

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1 2 3 4 5 6 7	I.E.10.c.	The Permittees shall retain at the Facility, or other approved location, records of all monitoring and maintenance records, copies of all reports and records required by this Permit, and records of all data used to complete the application for this Permit which are not associated with a particular TSD unit for a period of at least ten (10) years from the date of certification of completion of postclosure care or corrective action for the Facility, whichever is later. This information may be retained on electronic media.				
8 9	I.E.10.d.	The record retention period may be extended by request of the Department at any time				
10		by notification, in writing, to the Permittees and is automatically extended during the				
11		course of any unresolved enforcement action regarding this Facility to ten (10) years				
12		beyond the conclusion of the enforcement action.				
13						
14	I.E.10.e.	Records of monitoring information shall include:				
15						
16		i. The date, exact place and time of sampling or measurements;				
17 18		ii. The individual who performed the sampling or measurements and their				
19		affiliation;				
20		ailmanon,				
21		iii. The dates the analyses were performed;				
22		· · · · · · · · · · · · · · · · · · ·				
23		iv. The individual(s) who performed the analyses and their affiliation;				
24						
25		v. The analytical techniques or methods used; and,				
26		The magnifer of small and house				
27 28		vi. The results of such analyses.				
29	I.E.11.	Reporting Planned Changes				
30 31		The Permittees shall give notice to the Department as soon as possible of any planned				
32		physical alterations or additions to the Facility subject to this Permit. Such notice				
33		does not authorize any noncompliance with or modification of this Permit.				
34						
35	I.E.12.	Certification of Construction or Modification				
36	,					
37		The Permittees may not commence treatment, storage, or disposal of dangerous wastes				
38		in a new or modified portion of TSD units subject to this Permit until:				
39						
10	•	i. The Permittees have submitted to the Department, by certified mail, overnight				
1 2		express mail, or hand delivery, a letter signed by the Permittees and a registered professional engineer stating that the TSD unit has been constructed				
13		or modified in compliance with the Conditions of this Permit; and,				
14		or mounted in compliance that are conditions of and formit, and,				

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1 2		ii. The Department has inspected the modified or newly constructed TSD unit, and finds that it is in compliance with the Conditions of this Permit; or
3 4		iii. Within 15 days of the date of receipt of the Permittees' letter, the Permittees
5 6 7 8		have not received notice from the Department of its intent to inspect, prior inspection is waived, and the Permittees may commence treatment, storage, and disposal of dangerous waste.
9	I.E.13.	Anticipated Noncompliance
10		
11		The Permittees shall give at least 30 days advance notice to the Department of any
12		planned changes in the Facility subject to this Permit or planned activity which might
13		result in noncompliance with Permit requirements.
14		- -
15		If 30 days advance notice is not possible, then the Permittees shall give notice
16		immediately after the Permittees become aware of the anticipated noncompliance.
17		Such notice does not authorize any noncompliance with or modification of this Permi
18		•
19 20	I.E.14.	Transfer of Permits
21 22 23 24 25 26 27		This Permit may be transferred to a new owner only if it is modified or revoked and reissued pursuant to WAC 173-303-830(3)(b). The Permit may be transferred to a new co-operator in accordance with the provisions of WAC 173-303-830(2). Before transferring ownership or operation of the Facility during its operating life, the Permittees shall notify the new owner or operator in writing of the requirements of WAC 173-303-600 and -806 and this Permit.
28	I.E.15.	Immediate Reporting
29 30 31 32 33 34	I.E.15.a	The Permittees shall verbally report to the Department any release of dangerous wast or hazardous substances, or any noncompliance with the Permit which may endanger human health or the environment. Any such information shall be reported immediately after the Permittees become aware of the circumstances.
35 36 37 38	I.E.15.b.	The immediate verbal report shall contain all the information needed to determine the nature and extent of any threat to human health and the environment, including the following:
39 40 41		 Name, address, and telephone number of the Permittee responsible for the release or noncompliant activity;
42 43		ii. Name, location, and telephone number of the unit at which the release occurred;

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1		iii. Date, time, and type of incident;
2		1
3		iv. Name and quantity of material(s) involved;
4		, , , , , , , , , , , , , , , , , , , ,
5		v. The extent of injuries, if any;
6		
7		vi. An assessment of actual or potential hazard to the environment and human
8		health, where this is applicable;
9		Training and an arrange of the state of the
10		vii. Estimated quantity of released material that resulted from the incident; and,
11		A stimum withing the second settlem to military the second
12		viii. Actions which have been undertaken to mitigate the occurrence.
13 14	I.E.15.c.	The Demokrate shall seemed by accordance with Conditions I.E. 15 a. and I.E. 15 b. annual
15	1.E.15.C.	The Permittees shall report, in accordance with Conditions I.E.15.a. and I.E.15.b., any
16		information concerning the release or unpermitted discharge of any dangerous waste or hazardous substances that may cause an endangerment to drinking water supplies or
17		· · · · · · · · · · · · · · · · · · ·
18		ground or surface waters, or of a release or discharge of dangerous waste or hazardous substances or of a fire or explosion at the Facility, which may threaten human health
19		or the environment. The description of the occurrence and its cause shall include all
20		information necessary to fully evaluate the situation and to develop an appropriate
21		course of action.
22		Source of motion.
23	I.E.15.d.	For any release or noncompliance not required to be reported to the Department
24		immediately, a brief account must be entered within two (2) working days, into the
25		TSD operating record, for a TSD unit, or into the Facility operating record, inspection
26		log or separate spill log, for non-TSD units. This account must include: the time and
27		date of the release, the location and cause of the release, the type and quantity of
28		material released, and a brief description of any response actions taken or planned.
29		The state of the s
30	I.E.15.e.	All releases, regardless of location of release or quantity of release, shall be controlled
31		and mitigated, if necessary, as required by WAC 173-303-145(3).
32		
33	I.E.16.	Written Reporting
34		
35		Within 15 days after the time the Permittees become aware of the circumstances of any
36		noncompliance with this Permit which may endanger human health or the environment,
37		the Permittees shall provide to the Department a written report. The written report
38		shall contain a description of the noncompliance and its cause (including the
39		information provided in the verbal notification); the period of noncompliance including
40		exact dates and times; the anticipated time noncompliance is expected to continue if
41		the noncompliance has not been corrected; corrective measures being undertaken to
42		mitigate the situation, and steps taken or planned to reduce, eliminate, and prevent
43		reoccurrence of the noncompliance.
44	,	

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1	I.E.17.	Manifest Discrepancy Report
2		
3	I.E.17.a.	For dangerous waste received from outside the Facility, whenever a significant
4		discrepancy in a manifest is discovered, the Permittees shall attempt to reconcile the
5		discrepancy. If not reconciled within 15 days of discovery, the Permittees shall submit
6		a letter report in accordance with WAC 173-303-370(4), including a copy of the
7		applicable manifest or shipping paper, to the Department.
8	T T 1971	
9	I.E.17.b.	For dangerous waste which is being transported within the Facility (i.e., shipment of
10		on-site generated dangerous waste), whenever a significant discrepancy in the shipping
11 12		papers (see Condition II.Q.1.) is discovered, the Permittees shall attempt to reconcile
13		the discrepancy. If not reconciled within 15 days of discovery, the Permittees shall
14		note the discrepancy in the receiving unit's operating record.
15	I.E.18.	Unmanifested Waste Report
16	1.13.10.	Omnamested waste Report
17		The Permittees shall follow the provisions of WAC 173-303-370 for the receipt of any
18		dangerous waste shipment from off-site. The Permittees shall also submit a report in
19		accordance with WAC 173-303-390(1) to the Department within 15 days of receipt of
20		any unmanifested dangerous waste shipment received from off-site sources.
21		
22	I.E.19.	Other Noncompliance
23		
24		The Permittees shall report to the Department all instances of noncompliance not
25		otherwise required to be reported elsewhere in this Permit at the time the Annual
26		Dangerous Waste Report is submitted.
27	I.E.20,	
28 29	1.E.20,	Other Information
30		Whomever the Domeitteen because any that they be a Cile 1.
31		Whenever the Permittees become aware that they have failed to submit any relevant facts in a permit application, closure plan, or postclosure plan, or submitted incorrect
32		information in a permit application, closure plan, or postclosure plan, or in any report
33		to the Department, the Permittees shall promptly submit such facts or corrected
34		information.
35		

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1 2	I.E.21.	Reports, Notifications and Submissions
3		All written reports, notifications or other submissions which are required by this
4		Permit to be sent or given to the Director or Department should be sent certified mail,
5		overnight express mail or hand delivered to:
6		•
7		Nuclear Waste Program
8		Regulatory and Technical Support Unit
9		Department of Ecology
10		300 Desmond Drive
11		Lacey, Washington 98503
12		Telephone: (206) 407-7132,
13		• • • •
14		and
15		
16		Department of Ecology
17		200 Area Section
18		1315 West Fourth Avenue
19		Kennewick, Washington 99336
20		Telephone: (509) 735-7581
21		
22		Telephonic and oral reports/notifications need only be provided to the Department's
23		Kennewick Office.
24	•	
25	•	These are the current phone numbers and addresses and may be subject to change.
26		The Department shall give the Permittees written notice of a change in address or
27		telephone number. It is the responsibility of the Permittees to ensure any required
28		reports, notifications or other submissions are transmitted to the addressee listed in this
29		Condition. However, the Permittees shall not be responsible for ensuring verbal and
.30		written correspondence reaches a new address or telephone number until after their
31		receipt of the Department's written notification.
32	TE 00	
33	I.E.22.	Annual Report
34 25		The Demoistree shall seemed that the state of the Carrier Carr
35 26		The Permittees shall comply with the annual reporting requirements of WAC 173-303-390(2)(a) through (e) and (g).
36		390(2)(a) through (e) and (g).
37	I.F.	CICNIATODA DEGINDEMENT
38 39	Ι.Γ.	SIGNATORY REQUIREMENT
40		All applications, reports, or information submitted to the Department which require
41		certification shall be signed and certified in accordance with WAC 173-303-810(12)
42		and (13). All other reports required by this Permit and other information requested by
43		the Department shall be signed in accordance with WAC 173-303-810(12).
44		
• •		

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1 2	I.G.	CONFIDENTIAL INFORMATION					
3 4		The Permittees may claim confidential any information required to be submitted by this Permit, at the time of submission, in accordance with WAC 173-303-810(15).					
5 6 7	I.H.	DOCUMENTS TO BE MAINTAINED AT FACILITY SITE					
8 9 10		The Permittees shall maintain at the Facility, or some other location approved by the Department, the following documents and amendments, revisions, and modifications to these documents:					
11		arous declariones.					
12 13		1. This Permit and all attachments;					
14 15 16		 All dangerous waste Part B permit applications, postclosure permit applications and closure plans; and, 					
17 18		3. The Facility Operating Record.					
19 20		These documents shall be maintained for ten (10) years after postclosure care or corrective action for the Facility, whichever is later, has been completed and certified					
21 22		as complete.					

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1		PART II - GENERAL FACILITY CONDITIONS
2		
3 4 5	II.A.	FACILITY CONTINGENCY PLAN
6 7 8 9	П.А.1.	The Permittees shall immediately carry out the provisions of the Contingency Plan as provided in Attachment 4, pursuant to WAC 173-303-360(2), whenever there is a release of dangerous waste or dangerous waste constituents, or other emergency circumstance, either of which threatens human health or the environment.
11 12 13 14 15	II.A.2.	The Permittees shall comply with the requirements of WAC 173-303-350(4), as provided in the Hanford Facility Contingency Plan (Attachment 4). The Hanford Facility Contingency Plan contains reference to unit-specific contingency plans included in Part III of this Permit.
16 17 18 19 20	II.A.3.	The Permittees shall review and amend, if necessary, the Hanford Facility Contingency Plan, as provided in Permit Attachment 4, pursuant to WAC 173-303-350(5) and in accordance with the provisions of WAC 173-303-830(4). The plan shall be amended within a period of time agreed upon by the Department.
21 22 23 24 25	II.A.4.	The Permittees shall comply with the requirements of WAC 173-303-350(3) and -360(1) concerning the emergency coordinator, except the names and home telephone numbers will be on file with the Occurrence Notification Center, phone number (509) 376-2900.
26 27 28	II.A.5.	The Facility Contigency Plan, as provided in Attachment 4, shall be modified as follows:
29 30 31		Page APP 7A-2, lines 2 and 49. The emergency telephone number ""811" shall be replaced with "911."
32 33 34		Page APP 7A-3, lines 45 through 48. The emergency telephone number "811" shall be replaced with "911."
35 36 37 38		Page 7A-T1, lines 11 through 12. The term "Emergency Management Center Location: 1170 Building" shall be replaced with "Site Operation Team Location: Federal Building, Richland."
39	II.B.	PREPAREDNESS AND PREVENTION
40 41 42 43 44	II.B.1.	The Permittees shall equip the Facility with the equipment specified in the Hanford Facility Contingency Plan (Attachment 4) pursuant to WAC 173-303-340(1). Unit-specific preparedness and prevention provisions are included in Parts III and V of this Permit.

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1 2 3	II.B.2.	The Permittees shall test and maintain the equipment specified in the previous condition as necessary to assure proper operation in the event of emergency.
4	II.B.3.	The Permittees shall maintain access to communications or alarms pursuant to WAC
5	11.13.5.	173-303-340(2), as provided in the Hanford Facility Contingency Plan (Attachment 4)
6		and unit-specific contingency plans.
7		and unit-specific containgency phasis.
8	II.B.4.	The Permittees shall comply with WAC 173-303-340(4) and WAC 173-303-355(1)
9	11.12. 1.	pertaining to arrangements with local authorities.
10		poruming to unungomento with room audiorities.
11	II.C.	PERSONNEL TRAINING
12	12.01	
13	II.C.1.	The Permittees shall conduct personnel training as required by WAC 173-303-330.
14		The Permittees shall maintain documents in accordance with WAC 173-303-330(2)
15		and (3). Training records may be maintained in the Hanford Facility operating record
16		or on electronic data storage.
17		o. o. •.•••• and blockey.
18	II.C.2.	All Hanford Facility personnel shall receive general Facility training within six months
19		of hire. This training shall provide personnel with orientation of dangerous waste
20		management activities being conducted on the Hanford Facility. This training shall
21		include:
22		•
23	II.C.2.a.	Description of emergency signals and appropriate personnel response,
24		1 S J J Wall was property
25	II.C.2.b.	Identification of contacts for information regarding dangerous waste management
26		activities,
27		·,
28	II.C.2.c.	Introduction to waste minimization concepts,
29		• •
30	II.C.2.d.	Identification of contact(s) for emergencies involving dangerous waste, and
31		
32	II.C.2.e.	Familiarization with the Hanford Facility Contingency Plan.
33		•
34	II.C.3.	Description of training plans for personnel assigned to TSD units subject to this
35		Permit are delineated in the unit-specific chapters in Parts III or V of this Permit.
36		
37	II.C.4.	The Permittees shall provide the necessary training to non-Facility personnel (i.e.,
38		visitors, sub-contractors) as appropriate for the locations such personnel will be at and
39	+	the activities that will be undertaken. At a minimum, this training shall describe
40		dangerous waste management hazards at the Facility.
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1 2	II.D.	WASTE ANALYSIS				
3 4 5 6 7 8	II.D.1.	All waste analyses required by this Permit shall be conducted in accordance with a written waste analysis plan (WAP) or sampling and analysis plan (SAP). Operating TSD units shall have a WAP, which shall be approved through incorporation of the TSD unit into Part III of this Permit. Closing TSD units shall have a SAP and, if necessary, a WAP which shall be approved through incorporation of the TSD unit into Part V of this Permit.				
10 11 12 13 14	II.D.2.	Until a WAP is implemented in accordance with Condition II.D.1., any unit(s) identified in Parts III or V of this Permit without a unit-specific waste analysis plan approved by the Department shall not treat, store, or dispose of dangerous waste, unless specified otherwise by the Department in writing.				
15	II.D.3.	Each TSD un	it WAP shall include:			
16 17 18 19		ration	parameters for which each dangerous waste will be analyzed, and the nale for selecting these parameters; nethods of obtaining or testing for these parameters;			
20 21 22 23	,		nethods for obtaining representative samples of wastes for analysis esentative sampling methods are discussed in WAC 173-303-110(2);			
24 25 26			requency with which analysis of a waste will be reviewed or repeated to e that the analysis is accurate and current;			
27 28		v. The v	waste analyses which generators have agreed to supply;			
29 30 31 32		requi	e applicable, the methods for meeting the additional waste analysis rements for specific waste management methods as specified in WAC 603-630 through 173-303-670; and,			
33 34 35 36		receiv	ff-site facilities, the procedures for confirming that each dangerous waste yed matches the identity of the waste specified on the accompanying est or shipping paper. This includes at least:			
37 38 39		(1)	The procedure for identifying each waste movement at the Facility; and,			
40 41 42		(2)	The method for obtaining a representative sample of the waste to be identified, if the identification method includes sampling.			
43 44	II.D.4.	Should waste analysis be required by this Permit at a location on the Facility other than at a TSD unit, a SAP shall be maintained by the Permittees and made available				

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1 2 3		upon request from the Department. Any SAP required by this Permit not associated with a particular TSD unit shall include the elements of Conditions II.D.3.(i) through II.D.3.(iv).					
5	, II.E.	QUALITY ASSURANCE/QUALITY CONTROL					
6 7 8 9	П.Е.1.	All WAPs and SAPs required by this Permit shall include a quality assurance/quality control (QA/QC) plan or equivalent to document all monitoring procedures so as to ensure that all information, data, and resulting decisions are technically sound, statistically valid, and properly documented. Each QA/QC plan shall include, or					
11 12 13 14		contain a reference to another document which will be used and includes, the elements defined in Conditions II.E.2. and II.E.3. The QA/QC plan may be part of a SAP, WAP, or equivalent.					
15 16 17	II.E.2.	Each QA/QC plan shall contain a Data Quality Assurance Plan which includes the following:					
18 19	II.E.2.a.	A Data Collection Strategy section including, but not be limited to, the following:					
20 21 22		 A description of the intended uses for the data, and the necessary level of precision and accuracy for these intended uses; and, 					
23 24 25		ii. A description of methods and procedures to be used to assess the precision, accuracy, and completeness of the measurement data;					
26 27	II.E.2.b.	A Sampling section which shall include or describe and reference or cite:					
28 29 30		 Sampling methods including the identification of sampling equipment, a description of purging procedures, and a description of decontamination procedures to be used; 					
32 33 34		 Criteria for selecting appropriate sampling locations, depths, etc., or identification and justification of sample collection points and frequencies; 					
35 36 37 38		iii. Criteria for providing a statistically sufficient number of samples as defined in EPA guidance or criteria for determining a technically sufficient number of measurements to meet the needs of the project as determined through the DQC planning process;					
40 41		iv. Methods for, or specification of, measuring all necessary ancillary data;					
42 43		v. Criteria for, or specification of, determining conditions under which sampling should be conducted;					

Revision Number 2 Expiration Date: September 27, 2004 Page 29 of 91 1 vi. Criteria for establishing, or specification of, which parameters are to be 2 measured at each sample collection point and the frequency that each 3 parameter is to be measured: 4 5 Criteria for, or specification of, identifying the type of sampling (e.g., vii. 6 composites vs. grabs) and number of samples to be collected; 7 8 Criteria for, or specification of, measures to be taken to prevent contamination viii. 9 of the sampling equipment and cross contamination between sampling points; 10 11 ix. Methods and documentation of field sampling operations and procedure 12 descriptions, as appropriate, including: 13 14 (1) Documentation of procedures for preparation of reagents or supplies 15 which become an integral part of the sample (e.g., filters and 16 absorbing reagents); 17 18 (2) Procedure descriptions and forms for recording the exact location, 19 sampling conditions, sampling equipment, and visual condition of 20 samples; 21 22 (3) Documentation of specific sample preservation method; 23 24 (4) Calibration of field devices; 25 26 (5) Collection of replicate samples: 27 28 (6) Submission of field-biased blanks, where appropriate; 29 30 (7) Potential interferences present at the facility: 31 32 (8) Field equipment listing and sample containers: 33 34 (9) Sampling order; and, 35 Descriptions of decontamination procedures. 36 (10)37 38 Selection of appropriate sample containers, as applicable; X. 39 40 xi. Sample preservation methods, as applicable; and, 41 42 xii.

Chain-of-custody procedure descriptions as applicable, including:

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1 2 2			(1)	Standardized field tracking reporting forms to establish sample custody in the field prior to and during shipment; and,
3 4 5 6 7 8			(2)	Pre-prepared sample labels containing all information necessary for effective sample tracking, except where such information is generated in the field in which case blank spaces shall be provided on the pre-prepared sampling label.
9 10	II.E.2.c.	Where	applical	ble, a Field Measurements section which shall address:
11 12		i.	Selecti	ng appropriate field measurement locations, depths, etc.;
13 14 15 16	,	ii.	EPA g	ing a statistically sufficient number of field measurements as defined in uidance or criteria for determining a technically sufficient number of rements to meet the needs or the project as determined through the DQO s;
18 19		iii.	Measu	ring all necessary ancillary data;
20 21		iv.	Detern	nining conditions under which field measurements should be conducted;
22 23 24		v.		nining which media are to be addressed by appropriate field rements (e.g., ground water, air, soil, sediment, etc.);
25 26		vi.	Determ	nining which parameters are to be measured and where;
27 28 29		vii.	Selection period;	ng the frequency of field measurement and length of field measurements and,
30 31		viii.	Docum	enting field measurement operations and procedures, including:
32 33 34			(1)	Descriptions of procedures and forms for recording raw data and the specific location, time, and sampling conditions;
35 36			(2)	Calibration of field devices;
37 38			(3)	Collection of replicate measurements;
39 10			(4)	Submission of field-biased blanks, where appropriate;
†1 †2			(5)	Potential interferences present at the facility;
13 14			(6)	Field equipment listing; and,

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Ţ			(7)	Descriptions of decontamination procedures.	
2 3.	II.E.2.d.	Wher	e applica	ble, a Sample Analysis section which shall specify the following:	
4		whole applicable, a bample Analysis section when shall specify the following.			
5		i.	Chain	-of-custody procedures, including:	
7 8 9			(1)	Certification that all samples obtained for analysis will be delivered to a responsible person at the recipient laboratory who is authorized to sign for incoming field samples, obtain documents of shipment, and	
10 11	r			verify the data entered onto the sample custody records;	
12 13			(2)	Provision for a laboratory sample custody log; and,	
14 15 16			(3)	Specification of chain-of-custody procedures for sample handling, storage, and dispersement for analysis.	
17 18		ii.	Sampl	le storage procedure descriptions and storage times;	
19 20		iii.	Sampl	e preparation methods;	
20 21 22		iv.	Descri	iptions of analytical procedures, including:	
23 24			(1)	Scope and application of the procedure;	
25 26			(2)	Sample matrix;	
27 28			(3)	Potential interferences;	
29 30			(4)	Precision and accuracy of the methodology; and,	
31 32			(5)	Method detection limits.	
33 34		v.	Descri	ptions of calibration procedures and frequency;	
35 36		vi.	Data r	eduction, validation, and reporting;	
37 38		vii.		al laboratory quality control checks, laboratory performance, and as audits and frequency, including:	
39			_		
40 41			(1)	Method blank(s);	
42 43			(2)	Laboratory control sample(s);	
44			(3)	Calibration check sample(s);	

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1			(4)	Replicate sample(s);		
2			(5)	Matrix-spiked sample(s);		
4						
5 6			(6)	"Blind" quality control;		
7			(7)	Control charts;		
8						
9			(8)	Surrogate samples;		
oí						
11			(9)	Zero and span gases; and,		
12						
13			(10)	Reagent quality control checks.		
14						
15	II.E.3.			plan shall include a Data Management Plan or equivalent, to document		
16	,			and results. This plan shall identify and establish data documentation		
17				procedures, project or unit file requirements, and project-related		
18				ting procedures and documents. The storage location for the raw data		
19				ied. The plan shall also provide the format to be used to record and, for		
20		projects, present the validated and unvalidated data and conclusions. The Data				
21 22		Iviana	gement r	Plan shall include the following as applicable:		
23	II.E.3.a.	A data manad including the Callerian				
23 24	II.E.J.a.	A data record including the following:				
25		i.	Union	e sample or field measurement code;		
26		1.	Onique	e sample of field measurement code,		
27		ii.	Samul	ing or field measurement location including surveyed horizontal		
28		11,	_	nates and elevation of the sample location, and sample or measurement		
29			type;	nates and elevation of the sample location, and sample of measurement		
30			type,			
31		iii.	Sampl	ing or field measurement raw data;		
32			p.			
33		iv.	Labor	atory analysis ID number;		
34						
35		v.	Result	of analysis (e.g., concentration);		
36				, , , , , , , , , , , , , , , , , , , ,		
37		vi.	Elevat	ions of reference points for all ground water level measurements,		
38				ing water level elevation, top of casing elevation, and ground surface		
39				on; and,		
40						
41		vii.		etic computer records of all ground water, soil, surface water, and		
42				ent analytical data.		
43						
44						

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1 2	II.E.3.b.	Tabular displays, as appropriate, illustrating:				
3		i. Unsorted	l validated and unvalidated data;			
5		ii. Results	for each medium and each constituent monitored;			
6 7		iji. Data red	uction for statistical analysis;			
8						
9 10			of data by potential stratification factors (e.g., location, soil layer, phy); and,			
11		F-S-w				
12 13		v. Summar	y data.			
14 15 16	II.E.3.c.		ys (e.g., bar graphs, line graphs, area or plan maps, isopleth plots, lots or transects, three dimensional graphs, etc.), as appropriate, llowing:			
18		i. Displays	of sampling location and sampling grid;			
19 20 21		ii. Identific	ation of boundaries of sampling area and areas where more data are			
22		·				
23		iii. Displays	of concentrations of contamination at each sampling location;			
24 25 26		iv. Displays	of geographical extent of contamination;			
27 28 29		averages	d vertical displays of contamination concentrations, concentration, and concentration maxima, including isoconcentration maps for earts found in environmental media at the Facility;			
30 31 32 33			ons of changes in concentration in relation to distance from the ime, depth, or other parameters;			
34 35 36			ation of features affecting intramedia transport and identification of receptors;			
37 38 39			round of ground water level measurements, maps showing the on of head measurements in each aquifer; and,			
‡0 ‡1			well, provide a hydrograph that shows the distribution of water level nents taken during the time interval of the investigation.			
12 13 14	II.E.4.		agreed upon in writing by the Department, the Permittees shall on of availability to the Department of all data obtained pursuant to			

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this Permit within 30 days of receipt by the Permittees, or after completion of QA/QC activities, if applicable. If the Department agrees that data will be obtained on a routine basis for a particular unit, the Permittees shall only be required to provide notification of data availability within 30 days of first availability along with a statement as to expected frequency of future data. If routine data is not acquired at the stated expected frequency, the Permittees shall notify the department within 30 days with an explanation and revision, if applicable. This notification requirement shall also apply to any other information obtained from activities conducted, or data obtained, that may influence activities pursuant to this Permit.

II.E.5.

II.F.

The level of QA/QC for the collection, preservation, transportation, and analysis of each sample which is required for implementation of this Permit may be based upon Department approved data quality objectives for the sample. These data quality objectives shall be approved by the Department, in writing, or through incorporation of unit plans and permits into Parts III or V of this Permit.

GROUNDWATER AND VADOSE ZONE MONITORING

The Permittees shall comply with the groundwater monitoring requirements of WAC 173-303-645. This Condition shall apply only to those wells the Permittees use for the groundwater monitoring programs applicable to the TSD units incorporated into Parts III or V of this Permit. Where releases from TSD units subject to this Permit have been documented or confirmed by investigation, or where vadose zone monitoring is proposed for integration with groundwater monitoring, the Permittees shall evaluate the applicability of vadose zone monitoring. The Permittees shall consult with the Department regarding the implementation of these requirements. If agreed to by the Department, integration of groundwater and vadose zone monitoring for reasons other than this Permit may be accommodated by this Permit. Results from other investigation activities shall be used whenever possible to supplement and/or replace sampling required by this Permit.

II.F.I.

II.F.2.

Purgewater Management

Purgewater shall be handled in accordance with the requirements set forth in Attachment 5, Purgewater Management Plan.

Well Remediation and Abandonment

The Permittees shall inspect the integrity of active resource protection wells as defined by WAC 173-160-030 subject to this Permit at least once every five (5) years. These inspections shall be recorded in the Operating Record. The Permittees shall prepare a plan and schedule within 120 days after the effective date of this Permit, specifying the schedule and technical standards for this program. The Permittees shall provide a copy of this plan upon the request of the Department.

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Expiration Date: September 27, 2004 Page 35 of 91 1 II.F.2.b. The permittees shall evaluate resource protection wells subject to this Permit according to Sections 4.1. through 4.8.3. of the Hanford Well Remediation and 2 Decommissioning Plan (Attachment 6) and the Policy on Remediation of Existing 3 Wells and Acceptance Criteria for RCRA and CERCLA, June 1990 (Attachment 7) to 4 5 determine if a well has a potential use as a qualified well. The Permittees shall 6 abandon or remediate unusable wells according to the requirements of Chapter 18.104 7 RCW, Chapter 173-160 WAC, and Chapter 173-162 WAC to ensure that the integrity 8 of wells subject to this Permit is maintained. The timeframe for this remediation will 9 be specified in Parts III or V of this Permit. 10 11 II.F.2.c. The Department shall receive notice in writing at least 72 hours before the Permittees 12 remediate (excluding maintenance activities) or abandon any well subject to this Permit. 13 14 15 II.F.2.d. For wells subject to this Permit, the Permittees shall achieve full compliance with 16 Chapter 173-160 WAC and Chapter 18.104 RCW consistent with a rolling five (5) 17 year schedule agreed to by the Department and the Permittees. This process shall be 18 completed by the year 2012. 19 II.F.3. 20 Well Construction 21 22 All wells constructed pursuant to this Permit shall be constructed in compliance with 23 Chapter 173-160 WAC. 24 II.G. 25 SITING CRITERIA 26 27 The Permittees shall comply with the applicable notice of intent and siting criteria of 28 WAC 173-303-281 and WAC 173-303-282, respectively. 29 II.H. 30 RECORDKEEPING AND REPORTING 31 32 In addition to the recordkeeping and reporting requirements specified elsewhere in this Permit, the Permittees shall comply with the following: 33 34 II.H.1. 35 Cost Estimate for Facility Closure 36 37 The Permittees shall submit an annual report updating projections of anticipated costs for closure and postclosure of TSD units incorporated into Parts III or V of this 38 39 Permit. This report will be submitted annually, by October 31, to the Department and 40 reflect cost updates as of September 30, of the past Fiscal Year. 41 42 43

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1 2	II.H.2.	Cost Estimate for Postclosure Monitoring and Maintenance
3 4 5 6 7		The Permittees shall submit an annual report updating projects of anticipated costs for postclosure monitoring and maintenance for TSD units incorporated into Parts III or V of this Permit. This report will be submitted annually, by October 31, to the Department and reflect cost updates as of September 30, of the past Fiscal Year.
8 9	II.H.3.	The Permittees are exempt from the requirements of WAC 173-303-620
10 11	II.I.	FACILITY OPERATING RECORD
12 13 14 15 16 17 18 19 20 21 22 23	II.I.I.	The Permittees shall maintain a written Facility Operating Record until ten (10) years after postclosure or corrective action is complete and certified for the Facility, whichever is later. Except as specifically provided otherwise in this Permit, the Permittees shall also record all information referenced in this Permit in the Facility Operating Record within seven (7) working days after the information becomes available. A TSD unit-specific operating record shall be maintained for each TSD unit at a location identified in Parts III and V of this Permit. Each TSD unit-specific operating record shall be included by reference in the Facility Operating Record. Information required in each TSD unit-specific operating record is identified on a unit-by-unit basis in Part III or V of this Permit. The Facility Operating Record shall include, but not be limited to, the following information:
24 25 26 27 28 29 30 31 32 33	II.I.1.a.	A description of the system(s) currently utilized to identify and map solid waste management units and their locations. The description of the system(s) is required to include an identification of on-site access to the system's data, and an on-site contact name and telephone number. In addition to, or as part of, this system(s), the Permittees shall also maintain a list identifying active 90-day waste storage areas and dangerous waste satellite accumulation areas and their locations. The list shall identify the location, the predominant waste types managed at the area, and a date identifying when the list was compiled. Maps shall be provided by the Permittees upon request by the Department;
34 35	II.I.1.b.	Records and results of waste analyses required by WAC 173-303-300;
36 37 38 39 40	II.I.1.c.	An identification of the system(s) currently utilized to generate Occurrence Reports. The identification of the system(s) is required to include a description, an identification of an on-site location of hard-copy Occurrence Reports, an identification of on-site access to the system's data, and an on-site contact name and telephone number;
41 42	II.I.1.d.	Copies of all unmanifested waste reports;

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1 2 3 4	II.I.1.e.	Hanford Facility Contingency Plan as well as summary reports and details of all incidents that require implementing the Contingency Plan, as specified in WAC 173-303-360(2)(k);
5 6 7 8	II.I.1.f.	An identification of the system(s) currently utilized and being developed to record personnel training records and to develop training plans. The identification of the system(s) is required to include a description, an identification of on-site access to the system's data, and an on-site contact name and telephone number;
10 11 12 13	II.I.1.g.	Preparedness and prevention arrangements made pursuant to WAC 173-303-340(4) and documentation of refusal by state or local authorities that have declined to enter into agreements in accordance with WAC 173-303-340(5);
14 15	II.I.1.h.	[Reserved]
16 17 18 19	II.I.1.i.	An identification and description of the report containing closure and postclosure cost estimates required by Conditions II.H.1. and II.H.2. The identification shall provide the on-site location and document number of the report;
20 21 22 23	II.I.I.j.	Documentation (e.g. waste profile sheets) of all dangerous waste transported to or from any TSD unit subject to this Permit. This documentation shall be maintained in the receiving unit's operating record from the time the waste is received;
24 25 26 27 28 29	II.I.1.k.	An identification of the system(s) currently utilized to cross-reference waste locations to specific manifest document numbers. The identification of the system(s) is required to include a thorough description, an identification of an on-site location of a hard-copy data report, an identification of on-site access to the system's data, and an on-site contact name and telephone number;
30 31	II.I.1.ī.	[Reserved]
32 33	II.I.1.m.	Annual Reports required by this Permit;
34 35 36 37 38 39 40 41	II.I.1.n.	An identification of all systems currently utilized to record monitoring information, including all calibration and maintenance records, and all original strip chart recordings for continuous monitoring instrumentation. The identification of systems shall include a description of the systems. The descriptions shall include a confirmation that the criteria of Condition I.E.10.e. is provided by the utilization of the system. The identification of the systems shall also include an identification of on-site access to the system's data, an on-site contact name and telephone number;
42 43	II.I.1.o.	[Reserved]

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1 2 3	II.I.1.p.	Summaries of all records of groundwater corrective action required by WC 173-303-645;
4 5 6 7 8 9	II.I.1.q.	An identification of the system(s) currently being utilized and being developed to evaluate compliance with the Conditions of this Permit and with Chapter 173-303 WAC. The identification of the system(s) shall include a description of the system(s), an identification of on-site access to the system's data, and an on-site contact name and telephone number. The description of the system(s) shall also include a definition of which portion(s) of the system(s) are accessible to the Department;
11 12	II.I.1.r.	All deed notifications required by this Permit (to be included by reference);
13 14	II.I.1.s.	All inspection reports required by this Permit; and,
15 16	II.I.1.t.	All other reports as required by this Permit, including ECNs and NCRs.
17 18 19 20	II.I.2.	The descriptions of systems and/or reports required in Conditions II.I.1.a., II.I.1.c., II.I.1.f., II.I.1.i., II.I.1.k., II.I.1.n., and II.I.1.q., shall be placed in the Facility Operating Record within twelve months of the effective date of this Permit.
21 22	II.J.	FACILITY CLOSURE
23 24 25 26 27 28	II.J.1.	Final closure of the Hanford Facility will be achieved when closure activities for all TSD units have been completed, as specified in Parts III, IV, or V of this Permit. Completion of these activities shall be documented using either certifications of closure, in accordance with WAC 173-303-610(6), or certifications of completion of postclosure care, in accordance with WAC 173-303-610(11).
29 30	II.J.2.	The Permittees shall close all TSD units as specified in Parts III or V of this Permit.
31 32 33 34 35 36	II.J.3.	The Permittees shall submit a written notification of or request for a permit modification in accordance with the provisions of WAC 173-303-610(3)(b) whenever there is a change in operating plans, facility design, or the approved closure plan. The written notification or request must include a copy of the amended closure plan for review or approval by the Department.
37 38	II.J.4.	The Permittees shall close the Facility in a manner that:
39 40	II.J.4.a	Minimizes the need for further maintenance;
41 42 43 44	II.J.4.b.	Controls, minimizes or eliminates to the extent necessary to protect human health and the environment, postclosure escape of dangerous waste, dangerous constituents, leachate, contaminated run-off, or dangerous waste decomposition products to the ground, surface water, ground water, or the atmosphere; and,

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II.J.4.c.	Returns the land to the appearance and use of surrounding land areas to the degree possible given the nature of the previous dangerous waste activity.
II.J.4.d.	Meets the requirements of WAC 173-303-610(2)(b).
П.К.	SOIL/GROUNDWATER CLOSURE PERFORMANCE STANDARDS
П.К.1.	For purposes of Condition II.K., the term "clean closure" shall mean the status of a TSD unit at the Facility which has been closed to the cleanup levels prescribed by WAC 173-303-610(2)(b) provided certification of such closure has been accepted by Ecology.
II.K.2.	The Permittees may close a TSD unit to background levels as defined in Department approved Hanford Site Background Documents if background concentrations exceed the levels prescribed by Condition II.K.1. Closure to these levels, provided the Permittees comply with all other closure requirements for a TSD unit as identified in Parts III or V of this Permit, shall be deemed as "clean closure."
II.K.3.	Except for those TSD units identified in Conditions II.K.1., II.K.2., or II.K.4., the Permittees may close a TSD unit to a cleanup level specified under Method C of Chapter 173-340 WAC. Closure of a TSD unit to these levels, provided the Permittees comply with all other closure requirements for the TSD unit as specified in Parts III or V of the Permit, and provided the Permittees comply with Conditions II.K.3.a. through II.K.3.c., shall be deemed as a "modified closure."
II.K.3.a.	For "modified closures," the Permittees shall provide institutional controls in accordance with WAC 173-340-440 which restricts access to the TSD unit for a minimum of five (5) years following completion of closure. The specific details and duration of institutional controls shall be specified in Parts III or V of this Permit for a particular TSD unit.
II.K.3.b.	For "modified closures", the Permittees shall provide periodic assessments of the TSD unit to determine the effectiveness of the closure. The specific details of the periodic assessments shall be specified in Parts III or V of this Permit. The periodic — assessments shall include, as a minimum, a compliance monitoring plan in accordance with WAC 173-340-410 that will address the assessment requirements on a unit by unit basis. At least one (1) assessment activity shall take place after a period of five (5) years from the completion of closure, which will demonstrate whether the soils and groundwater have been maintained at or below the allowed concentrations as specified in Parts III of V of this Permit. Should the required assessment activities identify contamination above the allowable limits as specified in Parts III or V, the TSD unit must be further remediated or the requirements of II.K.4. must be followed. Should the required assessment activities demonstrate that contamination has diminished or
	II.J.4.d. II.K. II.K.1. II.K.2. II.K.3.

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1 remained the same, the Permittees may request that the Department reduce or eliminate 2 the assessment activities and/or institutional controls. 3 4 II.K.3.c. For "modified closures", the Permittees shall specify the specific activities required by 5 this Condition in a postclosure permit application. 6 7 II.K.4. For any TSD unit which Conditions II.K.1., II.K.2., or II.K.3., are not chosen as the 8 closure option, closing the TSD unit as a landfill may be selected. Closure and 9 postclosure of the TSD unit as a landfill must follow the procedures and requirements 10 specified in WAC 173-303-610. 11 12 II.K.5. The cleanup option selected shall be specified in Parts III or V of this Permit and shall 13 be chosen with consideration of the potential future site use for that TSD unit/area. Definitions contained within Chapter 173-340 WAC shall apply to Condition II.K. 14 15 where definitions are not otherwise provided by this Permit, the FFACO, or Chapter 16 173-303 WAC. 17 18 II.K.6. Deviations from a TSD unit closure plan required by unforseen circumstances 19 encountered during closure activities which do not impact the overall closure strategy 20 but provide equivalent results shall be documented in the TSD unit-specific operating 21 record and made available to the Department upon request or during the course of an 22 inspection. 23 24 II.K.7. Where agreed to by the Department, integration of other statutorily or regulatory 25 mandated cleanups may be accommodated by this Permit. Results from other cleanup 26 investigation activities shall be used whenever possible to supplement and/or replace TSD unit closure investigation activities. All, or appropriate parts of, multipurpose 27 28 cleanup and closure documents can be incorporated into this Permit through the Permit modification process. Cleanup and closures conducted under any statutory authority 29 30 with oversight by either the Department or the Agency which meets the equivalent of 31 the technical requirements of Conditions II.K.1. through II.K.4. may be considered as 32 satisfying the requirements of this Permit. 33 34 II.L. **DESIGN AND OPERATION OF THE FACILITY** 35 36 II.L.1. Proper Design and Construction 37 The Permittees shall design, construct, maintain, and operate the Facility to minimize 38 39 the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of 40 hazardous substances to air, soil, ground water, or surface water which could threaten

human health or the environment.

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1 II.L.2. Design Changes, Nonconformance, and As-Built Drawings 2 3 II.L.2.a. The Permittees shall conduct all construction subject to this Permit in accordance with 4 the approved designs, plans and specifications that are required by this Permit unless 5 authorized otherwise in Conditions II.L.2.b. or II.L.2.c. For purposes of Conditions 6 II.L.2.b. and II.L.2.c., a Department construction inspector or TSD unit manager are 7 designated representatives of the Department. 8 9 II.L.2.b. During construction of a project subject to this Permit, changes to the approved 10 designs, plans and specifications shall be formally documented with an Engineering Change Notice (ECN). All ECNs shall be maintained in the TSD unit-specific 11 12 operating record and shall be made available to the Department upon request or during 13 the course of an inspection. The Permittees shall provide copies of ECNs affecting 14 any critical system to the Department within five (5) working days of initiating the ECN. Identification of critical systems shall be included by the Permittees in each 15 16 TSD unit-specific dangerous waste permit application, closure plan or Permit 17 modification, as appropriate. The Department will review an ECN modifying a 18 critical system and inform the Permittees within two (2) working days in writing 19 whether the proposed ECN, when issued, will require a Class 1, 2, or 3 permit 20 modification. If after two (2) working days the Department has not responded, it will 21 be deemed as acceptance of the ECN by the Department. 22 II.L.2.c. 23 During construction of a project subject to this Permit, any work completed which 24 does not meet or exceed the standards of the approved design, plans and specifications 25 shall be formally documented with a nonconformance report (NCR). All NCRs shall 26 be maintained in the TSD unit-specific operating record and shall be made available to 27 the Department upon request or during the course of an inspection. The Permittees 28 shall provide copies of NCRs affecting any critical system to the Department within 29 five (5) working days after identification of the nonconformance. The Department will 30 review an NCR affecting a critical system and inform the Permittees within two (2) 31 working days in writing whether a permit modification is required of any 32 nonconformance and whether prior approval is required from the Department before 33 work proceeds which affects the nonconforming item. If the Department does not 34 respond within two (2) working days, it will be deemed as acceptance and no permit -35 modification is required. 36 II.L.2.d. 37 Upon completion of a construction project subject to this Permit, the Permittees shall

produce as-built drawings of the project which incorporate the design and construction

modifications resulting from all project ECNs and NCRs as well as modifications made pursuant to WAC 173-303-830. The Permittees shall place the drawings into

alternate period of time specified in a unit-specific Condition in Part III or V of this

the operating record within 12 months of completing construction, or within an

43 44 Permit.

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1 2	II.L.3.	Facility Compliance
3 4 5 6		The Permittees in receiving, storing, transferring, handling, treating, processing, and disposing of dangerous waste shall design, operate and/or maintain the Facility in compliance with all applicable federal, state and local laws and regulations.
7 8	II.M.	SECURITY
9		The Permittees shall comply with the security provisions of WAC 173-303-310. The
10		Permittees may comply with the requirements of WAC 173-303-310. The
11		unit basis.
12		and outlies.
13	II.N.	RECEIPT OF DANGEROUS WASTES GENERATED OFF-SITE
14		A SEEM TO THE DESIGNATION OF THE STATE OF TH
15	II.N.1.	Receipt of Off-Site Waste
16		Accept of On-One Waste
17		The Permittees shall comply with Conditions II.N.2. and II.N.3. for any dangerous
18		wastes which are received from either sources outside the United States or from off-
19		site generators.
20		Site generators.
21	II.N.2.	Waste From Sources Outside the United States
22		waste from Bourees Outside the United States
23		The Permittees shall meet the requirements of WAC 173-303-290(1) for waste
24		received from outside the United States.
25		received from outside the officed states.
26	II.N.3.	Notice to Generator
27		A COURT TO GENERALIST
28		For waste received from off-site sources (except where the owner/operator is also the
29		generator), the Permittees shall inform the generator in writing that they have the
30		appropriate permits for, and will accept, the waste the generator is shipping, as
31		required by WAC 173-303-290(3). The Permittees shall keep a copy of this written
32		notice as part of the TSD unit-specific operating record.
33		notice as part of the 15D unit-specific operating record.
34	II.O.	GENERAL INSPECTION REQUIREMENTS
35	11.0.	SEALING INGLECTION RECORDINENTS
36	II.O.1.	The Permittees shall inspect the Facility to prevent malfunctions and deterioration,
37		operator errors, and discharges which may cause or lead to the release of dangerous
38		waste constituents to the environment, or a threat to human health. Inspections must
39		be conducted in accordance with the provisions of WAC 173-303-320(2). In addition
40		to the TSD unit inspections specified in Parts III or V, the following inspections will
41		also be conducted.
42		
43	II.O.1.a.	The 100, 200 East, 200 West, 300, 400, and 1100 areas shall be inspected annually.
44		and the dispected almustry.

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Condition II.P.1.

Expiration Date: September 27, 2004 Page 43 of 91 II.O.1.b. I The Permittees shall inspect the banks of the Columbia River, contained within the 2 Facility boundary, two (2) times yearly. One (1) inspection shall occur at the low 3 water mark of the year and one (1) inspection shall occur at a time chosen by the 4 Permittees. These inspections shall be performed from the river by boat, and the 5 inspectors shall follow the criteria in Condition II.0.1.c. 6 7 II.O.1.c. The Permittees shall visually inspect the areas identified in Conditions II.O.l.a. and 8 II.O.1.b. for malfunctions, deterioration, operator errors, and discharges which may 9 cause or lead to the release of dangerous waste constituents to the environment, or that 10 threaten human health. Specific items to be noted are as follows: 11 12 i. Remains of waste containers, labels or other waste management equipment; 13 14 ii. Solid waste disposal sites not previously identified for remedial action; 15 16 iii. Uncontrolled waste containers (e.g., orphan drums); 17 18 iv. Temporary or permanent activities that could generate an uncontrolled waste 19 form; and, 20 Unpermitted waste discharges. 21 v. 22 23 II.O.1.d. The Permittees shall notify the Department at least seven (7) days prior to conducting 24 these inspections in order to allow representatives of the Department to be present 25 during the inspections. 26 27 II.O.2. If the inspection by the Permittees conducted pursuant to Condition II.O.1. reveals any problems, the Permittees shall take remedial action on a schedule agreed to by the 28 29 Department. 30 31 II.O.3. The inspection of high radiation areas will be addressed on a case-by-case basis in 32 either Part III of this Permit or prior to the inspections required in Condition II.O.1. 33 34 II.P. MANIFEST SYSTEM 35 II.P.1. 36 The Permittees shall comply with the manifest requirements of WAC 173-303-370 for 37 waste received from off-site and WAC 173-303-180 for waste shipped off-site. 38 39 II.P.2. Transportation of dangerous wastes along State Highways 240, 24, and 243, and 40 Route 4 South (Stevens Drive) south of the Wye Barricade, if such routes are not 41 closed to general public access at the time of shipment, shall be manifested pursuant to

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1 2	II.Q.	ON-SITE TRANSPORTATION
3 4 5 6 7 8	II.Q.1.	Documentation must accompany any on-site dangerous waste which is transported to or from any TSD unit subject to this Permit through or within the 600 Area, unless the roadway is closed to general public access at the time of shipment. Waste transported by rail or by pipeline is exempt from this Condition. This documentation shall include the following information, unless other unit-specified provisions are designated in Part III or V.
10 -11	II.Q.1.a.	Generator's name, location and telephone number;
12 13	II.Q.1.b.	Receiving TSD unit's name, location, and telephone number;
14 15	II.Q.1.c.	Description of waste;
16 17	II.Q.1.d.	Number and type of containers;
18 19	II.Q.1.e.	Total quantity of waste;
20 21	II.Q.1.f.	Unit volume/weight;
22 23	II.Q.1.g.	Dangerous waste number(s); and,
24 25	II.Q.1.h.	Any special handling instructions.
26 27 28 29	II.Q.2.	All non-containerized solid, dangerous waste transported to or from TSD units subject to this Permit shall be covered to minimize the potential for material to escape during transport.
30 31	II.R.	EQUIVALENT MATERIALS
32 33 34 35 36	II.R.1.	The Permittees may substitute an equivalent or superior product for any equipment or materials specified in this Permit. Use of equivalent or superior products shall not be considered a modification of this Permit. A substitution will not be considered — equivalent unless it is at least as effective as the original equipment or materials in protecting human health and the environment.
37 38 39 40 41 42	II.R.2.	The Permittees shall place in the operating record (within seven (7) days after the change is put into effect) the substitution documentation, accompanied by a narrative explanation, and the date the substitution became effective. The Department may judge the soundness of the substitution.
43 44	II.R.3.	If the Department determines that a substitution was not equivalent to the original, it will notify the permittees that the Permittees' claim of equivalency has been denied, of

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the reasons for the denial, and that the original material or equipment must be used. If the product substitution is denied, the Permittees shall comply with the original approved product specification or find an acceptable substitution. II.S. LAND DISPOSAL RESTRICTIONS Unless specifically identified otherwise in the FFACO, the Permittees shall comply with all Land Disposal Restriction requirements as set forth in WAC 173-303-140. II.T. **ACCESS AND INFORMATION**

To the extent that work required by this Permit must be done on property not owned or countrolled by the Permittees, the Permittees must utilize their best efforts to obtain access and information at these locations.

MAPPING OF UNDERGROUND PIPING

Within 24 months of the effective date of the Permit, the Permittees shall submit a report to the Department which describes the procedures proposed to be used to compile the information required by Conditions II.U.2., II.U.3., and II.U.4. The report shall describe the methods which will be used to retrieve the piping information, the estimated accuracy of the data to be provided, quality assurance and/or quality control techniques to be employed including field verification activities (i.e., surveying, ground penetrating radar, etc.) to support information gathered from existing drawings, and conceptual examples of the product which will be submitted.

Within 36 months of the effective date of this Permit, the Permittees shall make an initial submittal to the Department of maps showing the location of dangerous waste underground pipelines (including active, inactive, and abandoned pipelines which contain or contained dangerous waste subject to the provisions of Chapter 173-303 WAC) on the Facility which are located outside of the fences enclosing the 200 East, 200 West, 300, 400, 100N, and 100K Areas. These maps shall identify the origin, destination, size, depth and type (i.e., reinforced concrete, stainless steel, cast iron, etc.) of each pipe and the location of their diversion boxes, valve pits, seal pots, catch—tanks, receiver tanks, and pumps, utilizing Washington State Plane Coordinates, NAD 83(91), meters. If the type of pipe material is not documented on existing drawings, the most probable material type shall be provided. These maps shall be accompanied by a description of the quality assurance and quality control measures used to compile the maps.

The age of all pipes required to be identified pursuant to this Condition shall be documented in an attachment to the submittal. If the age cannot be documented, an estimate of the age of the pipe shall be provided based upon best engineering judgement.

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These maps, and any attachments, shall be maintained in the Facility Operating Record and updated annually after the initial submittal with new or revised information. Each map submittal required by this Condition shall incorporate information available six months before the scheduled submittal date. II.U.3. Within 48 months of the effective date of this Permit, the Permittees shall make an initial submittal to the Department of piping schematics for dangerous waste underground pipelines (including active, inactive, and abandoned pipelines which contain or contained dangerous waste subject to the provisions of Chapter 173-303

WAC) within the 200 East, 200 West, 300, 400, 100N, and 100K Areas. The piping schematics shall identify the origin, destination, and direction of flow for each pipe, as well as whether the pipe is active, inactive, or abandoned. These schematics need not include the pipes within a fenced tank farm or within a building/structure. These schematics shall be accompanied by a description of the quality assurance and quality control measures used to compile the maps.

These schematics and any attachments, shall be maintained in the Facility Operating Record and updated annually after the initial submittal with new or revised information. Each map submittal required by this Condition shall incorporate information available six months before the scheduled submittal date.

Within 48 months of the effective date of this Permit, the Permittees shall make an initial submittal to the Department of maps showing the location of dangerous waste underground pipelines (including active, inactive, and abandoned pipelines which contain or contained dangerous waste subject to the provisions of Chapter 173-303 WAC) within the 200 East, 200 West, 300, 400, 100N, and 100K Areas. These maps will incorporate information available six months prior to the scheduled submittal date. Thereafter, the maps will be updated on an annual basis to incorporate additional information, as such information becomes available in accordance with the FFACO milestone schedule. A schedule for the provision of map input shall be included in the report specified in Condition II.U.1.

The maps shall identify the origin, destination, size, depth and type (i.e., reinforced concrete, stainless steel, cast iron, etc.) of each pipe and the location of their diversion-boxes, valve pits, seal pots, catch tanks, receiver tanks, and pumps, and utilize Washington State Plan Coordinates, NAD 83(91), meters. If the type of pipe material is not documented on existing drawings, the most probable material type shall be provided. These maps need not include the pipes within a fenced tank farm or within a building/structure. These maps shall be accompanied by a description of the quality assurance/quality control used to compile the maps.

The age of all pipes required to be identified pursuant to this Condition shall be documented in an attachment to the submittal. If the age cannot be documented, an

22 II.U.4.

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Expiration Date: September 27, 2004 Page 47 of 91 1 estimate of the age of the pipe shall be provided based upon best engineering 2 judgement. 3 4 These maps, and any attachments, shall be maintained in the Facility Wide Operating 5 Record and updated annually after the initial submittal with new or revised 6 information. 7 8 II.V. MARKING OF UNDERGROUND PIPING 9 10 Within 36 months of the effective date of this Permit, the Permittees shall mark the underground pipelines identified in Condition II.U.2. These pipelines shall be marked 11 12 at the point they pass beneath a fence enclosing the 200 East, 200 West, 300, 400, 13 100N or 100K Areas, at their origin and destination, at any point they cross an 14 improved road and every 100 meters along the pipeline corridor where practicable. 15 The markers shall be labeled with a sign that reads "Buried Dangerous Waste Pipe" 16 and shall be visible from a distance of 15 meters. 17 II.W. 18 OTHER PERMITS AND/OR APPROVALS 19 II.W.1. 20 The Permittees shall be responsible for obtaining all other applicable federal, state, 21 and local permits authorizing the development and operation of the Facility. To the 22 extent that work required by this Permit must be done under a permit and/or approval 23 pursuant to other regulatory authority, the Permittees shall use their best efforts to 24 obtain such permits. Copies of all documents relating to actions taken, pursuant to this 25 Condition, shall be kept in the operating record. 26 27 II.W.2. All other permits related to dangerous waste management activities are severable and 28 enforceable through the permitting authority under which they are issued. 29 30 All air emissions from TSD units subject to this Permit shall comply with all II.W.3. 31 applicable State and Federal regulations pertaining to air emission controls, including 32 but not limited to, Chapter 173-400 WAC, General Regulations for Air Pollution Sources; Chapter 173-460 WAC, Controls for New Sources of Toxic Air Pollutants; 33 . 34 and Chapter 173-480 WAC, Ambient Air Quality Standards and Emission Limits for-35 Radionuclides 36 II.X. 37 SCHEDULE EXTENSIONS 38 39 I.X.IIThe Permittees shall notify the Department in writing as soon as possible of any 40 deviations or expected deviations from the schedules of this Permit. The Permittees 41 shall include with the notification all information supporting their claim that they have

used best efforts to meet the required schedules. If the Department determines that the

Permittees have made best efforts to meet the schedules of this Permit, the Department

shall notify the Permittees in writing by certified mail that the Permittees have been

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1		granted an extension. Such an extension shall not require a permit modification under
2		Condition I.C.3. Should the Department determine that the Permittees have not made
3		best efforts to meet the schedules of this Permit, the Department may take such action
4		as deemed necessary.
5		
6		Copies of all correspondence regarding schedule extensions shall be kept in the
7		operating record.
8		
9	II.X.2	Any schedule extension granted through the approved change control process identified
10		in the FFACO shall be incorporated into this Permit. Such a revision shall not require
11		a Permit modification under Condition I.C.3.

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1 2	PAl	RT III - UNIT-SPEC	IFIC CONDITIONS FOR FINAL STATUS OPERATIONS
3			
4			CHAPTER 1.
5			CHAITEKI.
6		616 Nonr	adioactive Dangerous Waste Storage Facility
7.		010 110111	adioactive Dangerous Waste Storage Pacinty
8			
9	The 616 No.	nradioactive Dangerous	s Waste Storage Facility (NRDWSF) is an active storage unit for
10			to off-site commercial treatment or disposal facilities. This Chapter
11		operating Conditions	
12	5005 10141 111	o oporaring Contantons	ioi dus 10D dint.
13	III.1.A.	COMPLIANCE V	VITH APPROVED PERMIT APPLICATION
14	*******	COMINGE!	TITTAT ROYED I ERAIT THE ELECTION
15		The Permittees sha	all comply with all the requirements set forth in the 616
16			angerous Waste Storage Facility Permit Application, Rev. 2, as
17			nt 8, including the amendments specified in Condition III.1.B.
18			ns of the application are listed below (All subsections, figures, and
19			hese portions are also enforceable unless stated otherwise):
20			positions are also encoredate amoss seated early water,
21		Part A Application	· · · · · · · · · · · · · · · · · · ·
22		1.	t.
23		Section 2.1.3	The 616 Non-radioactive Dangerous Waste Storage Facility
24			Description
25		1	
26		Section 2,2	Topographic Maps
27			1 0 1
28		Section 2.5	Performance Standards
29			
30		Section 2.7.1	Spills and Discharges Into the Environment
31			
32		Section 2.8	Manifest System
33		r	·
34		Chapter 3.0	Waste Characteristics
35			
36		Chapter 4.0	Process Information
37			
38		Chapter 6.0	Procedures to Prevent Hazards
39	•		•
40		Chapter 7.0	Contingency Plan
41			
42		Chapter 8.0	Personnel Training
43			
44		Chapter 11.0	Closure and Post-Closure Requirements

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1		Chapter 12.0	Reporting and Recordkeeping
3		Section 13.7	Toxic Substance Control Act of 1976
4 5		Section 13.8	Other Requirements
6 7		Appendix 2A	Drawing H-13-000014, 616 NRDWSF Topographic Map
8 9 10		Appendix 4B	Drawing H-6-1553, Architectural Plan, Elevations and Sections, Rev. 3
11 12 13		Appendix 4B	Drawing H-6-1556, Structural Plan and Sections, Rev. 2
14 15		Appendix 7A	Building Emergency Plan - 616 Building
16 17		Appendix 11B	Description of Procedures
18 19	III.1.B.	AMENDMENTS TO T	HE APPROVED PERMIT APPLICATION
20 21	III.I.B.a.	Page 2-7, line 25. The	words "can be" are changed to "shall be."
22 23 24 25	III.1.B.b.	Page 2-16, line 45. An a "In addition, all reporting of this Permit shall be co	additional bullet is added to the text which reads as follows: g requirements identified in Conditions I.E.15. through I.E.22. omplied with."
26 27	III.1.B.c.	Page 2-17, line 24. The	word "voluntarily" is deleted from the text.
28 29	III.1.B.d.	Page 2-17, line 26. The	words "information on" is changed to "requirements for."
30 31 32	III.1.B.e.	Page 3-6, line 44. The t through 3.2.4 and 3.2.6	erm "Table 3-3" is deleted and replaced with "Sections 3.2.2".
33 34	III.1.B.f.	Page 3-7, lines 8-11. Th	nese lines are deleted and replaced with the following:
35 36 37 38 39 40 41		required by solid Waste confirmation of designat may be divided into two (Category I), and those t	astes at 616 NRDWSF, confirmation of designation may be Engineering (Section 3.2.4). The Wastes which shall undergo ion are identified in Condition III.1.B.n. of this Permit and groups; those that easily yield a representative sample hat do not (Category II). The steps for each type are outlined ription of which wastes fall into each category:
42 43 44		representative sample wi	which easily yields a representative sample is received a fill be taken of the waste. If more than one phase is present, and individually. The following field tests will be performed:

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#	Reactivity - HAZCAT TM oxidizer, cyanide, and sulfide tests. These tests wil
	not be performed on materials known to be organic peroxides, ethers, and/or
	water reactive compounds.
	•

- * Flashpoint/explosivity by HAZCATTM flammability procedure, explosive atmosphere meter¹, or a closed cup flashpoint measurement instrument¹.
- pH by pH meter¹ or pH paper (SW-846-9041).² This test will not be performed on non-aqueous materials.
- * Halogenated organic compounds by Chlor-D-TectTM kits.
- * Volatile organic compounds by photo or flame ionization tester¹, by gas chromatography with or without mass spectrometry, or by melting point and/or boiling point determination.

¹These instruments are field calibrated or checked for accuracy daily when in use.

²The pH paper must have a distinct color change every 0.5 pH unit and each batch of paper must be calibrated against certified pH buffers or by comparison with a pH meter calibrated with certified pH buffers.

If the waste meets the parameters specified in its documentation, within a 10% tolerance, confirmation of designation is complete. If it does not meet these parameters, sample and analyze the materials in accordance with WAC 173-303-110. See Table 3-4 for a list of analytical methodologies and Table 3-5 for sampling methodologies. This is considered a significant error under Section 3.2.4. Re-assess and re-designate the waste. Repackage and label as necessary or return to the generating unit.

When mathematically possible, the Permittees shall perform confirmation on an equal number of Category I and Category II containers.

Category II. If a representative sample is not easily obtained (for example, discarded—machinery or shop rags) or if the waste is a labpack or discarded laboratory reagent container, the following steps will be performed:

a. Visually verify the waste. Labpacks and combination packages must be removed from the outer container. If the waste meets the parameters specified in its documentation, confirmation of designation is complete. If it does not meet these parameters, proceed to the next step. This is considered a significant error under Section 3.2.4.

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1 2		b. If possible and necessary, segregate/repackage the waste for shipment in a compliant manner. If the waste is not packaged in compliance with shipping
3		requirements, proceed to the next step.
4 5 6 7		c. The waste must be re-designated using designation methods identified in WAC 173-303-070 through 173-303-100."
8 9 10	III.1.B.g.	Page 3-7, line 17. The following line is added: "Petitions to use an alternate test method shall be submitted in accordance with WAC 173-303-910."
11 12 13 14 15 16 17	III.1.B.h.	Page 3-7, line 18. The following paragraph is added: "All analytical tests performed to fulfill the requirements of Sections 3.2.4 and 4.1.1.8 (Frequency of Analysis and Removal of Liquids from Containment System, respectively) shall be performed in accordance with WAC 173-303-110. New test methods shall be used within 90 days of the effective date of the State regulations or laws that mandate the use of the test method. To ensure analytical quality control, all analyses must fulfill, at a minimum, the quality procedures specified in SW-846 Volume II."
19 20 21	III.1.B.i.	Page 3-7, line 33. The words "is adequate" are deleted and replaced with "must be adequate."
22 23 24	III.1.B.j.	Page 3-7, line 35. The words "is performed" are deleted and replaced with "must be performed."
25 26 27	III.1.B.k.	Page 3-7, line 40. The word "representative" is inserted between the words "obtaining" and "samples."
28 29 30 31	III.1.B.1.	Page 3-8, line 1. The following sentence is inserted before the word "Appropriate": "To ensure sample quality control, all sampling efforts must, at a minimum, be in accordance with the procedures specified in WAC 173-303-110."
32 33 34	III.1.B.m.	Page 3-8, line 1. "Appropriate preservation" is deleted and replaced with "Appropriate packaging and preservation."
35 36	III.1.B.n.	Page 3-8, line 8. The following paragraph is added:
37 38 39 40 41 42 43 44		"At least five percent (5%) of the waste containers stored at 616 NRDWSF during a Federal fiscal year (October 1 through September 30) will undergo confirmation of designation pursuant to Sections 3.2.2 and 3.2.3 (Test Methods and Sampling Methods, respectively). The number of containers to meet the five percent (5%) requirement is the average of containers for the previous three months. For example, if 200 containers are received in January, 180 in February, and 220 in March then 10 containers of inbound waste must undergo confirmation of designation in April. All generating units which ship more than twenty (20) containers through 616 NRDWSF

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I		in a fiscal year will have at least one (1) container sampled and analyzed. Containers
2		for which there is insufficient process knowledge or analytical information to designate
3		without sampling and analysis may not be counted as part of the five percent (5%)
4		requirement unless there is additional confirmation of designation independent of the
5 6		generator designation. The generating unit's staff shall not select the waste containers
7		to be sampled and analyzed other than identifying containers for which insufficient information is available to designate."
8		intornation is available to designate.
9	III.1.B.o.	Page 3-8, line 20. Delete the first sentence of the paragraph and replace it with the
10	111,112,0,	following: "To be acceptable at 616 NRDWSF, samples of non-radioactive waste
11		streams must be documented to have been sent to a laboratory for waste profiling
12		when newly identified or whenever the process used or raw materials usage changes,
13		and at least annually thereafter, to ensure that the waste designation assigned by the
14		Solid Waste Engineering staff (Section 3.2) is accurate and in compliance with land
15		ban restrictions."
16		·
17	III.1.B.p.	Page 3-8, line 29. The words "For two months" are deleted and replaced with "For the
18		next six shipments or two months, whichever is longer, to 616 NRDWSF."
19		
20	III.1.B.q.	Page 3-8, line 32. The following line is added to the end of the paragraph: "The
21 22		laboratory verification results shall be obtained in accordance with WAC 173-303-110."
23		110.
24	III.1.B.r.	[Reserved]
25	111.1.12.1.	[INCOSOT YOU]
26	III.1.B.s.	Page 4-5, line 4. Add the following after the word "performed": "after determination
27		by the Building Emergency Director (BED) that implementation of the Contingency
28		Plan pursuant to Appendix 7A is not necessary or all necessary actions in accordance
29		with the Contingency Plan have been implemented. Either case must be recorded and
30		signed in the TSD unit-specific operating record by the BED."
31		
32	III.1.B.t.	[Reserved]
33		*
34	III.I.B.u.	Page 4-5, line 32. The following sentence is added: "The 616 NRDWSF staff will -
35		ensure that waste is properly packaged, labeled, marked, and stored."
36 37	III.1.B.v.	Dogs 4.5. ling 46. The contents "Whatever need his proprie free vector will be used as
38	ш,т,р,у,	Page 4-5, line 46. The sentence "Wherever possible, organic free water will be used as
39		the collection medium to minimize the generation of additional dangerous waste." is deleted.
40		deleted.
41	III.1.B.w.	Page 4-5, line 46. The following sentence is added after "spilled material": "All
42		samples taken to verify that the site of a release is clean will be obtained in accordance
43		with the applicable standards of Section 11.1.5. et seq."
44		· · · · · · · · · · · · · · · · · ·

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1 ,2 3	III.1.B.x.	Figure 6-2, Section 2.0, Hallway. Revise the checklist to read "Protective equipment supply present per the emergency equipment list." This equipment shall be individually inspected and documented by type, and be in adequate condition, and in
4 5 6		the quantities listed. The revised checklist shall be submitted for approval to the Department within 30 days of the effective date of this Permit.
7 8	III.1.B.y.	Page 8-28, lines 5 through 8. These lines are deleted.
9	III.1.B.z.	Chapter 11. All sampling and analyses necessary for soils underneath a contaminated
10		concrete layer must be performed prior to removal of the overlying concrete. All soils
11 12		which exceed the clean closure standards of WAC 173-303-610(2)(b) shall be
13		managed in a manner analogous to that for contaminated surrounding soil as described in Chapter 11 of Attachment 8.
14		in Chapter 11 of Attachment 6.
15	III.1.B.aa.	Page 11-2, line 1. The words "In general," are deleted from the text. The "t" on
16		"these" is capitalized to read "These".
17		•
18	III.1.B.bb.	Table 11-1, page T11-1. In addition to the analyses in Table 11-1, the concrete
19		samples shall also be analyzed for all dangerous waste constituents documented to
20		have been spilled at the 616 NRDWSF during its operating life. These analyses shall
21 22		be performed in accordance with WAC 173-303-110 including the quality assurance
23		and quality control requirements delineated in SW-846. Action levels shall be based
23 24		on the level of quantitation for each analyte. Final decisions based on health based standards shall be subject to approval or rejection by the Department.
25		standards shall be subject to approval of rejection by the Department.
26 27 28	III.1.B.cc.	Page 12-5, line 28. Replace the words "via line management, that the" with "via line management, when the".
29 30	III.1.B.dd.	Page 12-5, line 41. The words, "outside the Hanford Facility" are deleted.
31 32	III.1.B.ee.	Page 12-12, line 16. The last two sentences of this paragraph are deleted.
33	III.1.B.ff.	Table 12-1 "Reports and Records." A definition of the footnote "a" is added to the
34		bottom of the table as follows:
35		
36		"a Hanford Facility means the reports and records are available through the Facility
37		Regulatory File index pursuant to Section 12.0. Until the index is implemented,
38		reports and records will be available at the Facility, but not necessarily at the 616
39 40		NRDWSF.
41		616 NRDWSF means the reports and records are available at the 616 NRDWSF
42		office."
43		

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III.1.B.gg.

Chemical, biological, and physical analyses of the dangerous waste to be handled at 616 NRDWSF pursuant to WAC 173-303-806(4)(a), entitled "616 Nonradioactive Dangerous Waste Facility Off-Site Shipping Lists," is found in Attachment 9 of this Permit.

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III.1.B.hh.

The description of procedures as referenced in Appendix 11B are provided in various sections of *Procedure Description*, January 13, 1991 (Attachment 10). The specific sections of Attachment 10 which are incorporated into the Permit are listed in Table III-1, below, by procedure. No part of Attachment 10 shall supersede any part of Attachment 8.

10 11

Number	Procedure	Pages	Sections
11B-1	Preparing Health and Safety Plan	1-4	1.0, 2.0, 3.0, 4.2, 5.0, 5.1, 5.2, 6.0, 6.1, 6.2
11B-2	Decontaminating Sampling Equipment	23-24	1.0, 2.0, 3.0, 5.2, 5.3, 6.1, 6.2, 6.3
11B-3	Evaluating Data	25-26, 28-29	1.0, 2.0, 3.0, 4.7, 5.0
11B-4	Packaging Samples	32-35	1.0, 4.0, 4.1, 5.0, 5.1, 5.2
11B-5	Soil and Sediment Sample Containers	6-11	1.0, 3.0, 4.2, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8
11B-6	Ensuring Quality Control of Records and Documentation	70-77	1.0, 3.0, 4.0, 4.1, 4.2, 4.3, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.0, 6.2, 6.3, 6.4, 6.5, 6.6
11B-7	Maintaining a Field Logbook	44-48	1.0, 3.0, 5.0, 5.1, 5.1.1, 5.1.2, 5.1.3, 5.1.4, 5.1.5, 6.0, 6.1, 6.2, 7.0
11B-8	Chain-of-Custody	39-43	1.0, 3.0, 4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 5.0, 6.0, 6.1, 6.2, 6.3, 6.4, 6.5, 6.7
11B-9	Controlling Unknown Suspected Waste	49-59	1.0, 3.0, 4.1, 4.2, 4.3, 4.4, 4.5, 5.0, 5.1, 5.2, 6.0, 6.1, 6.2, 6.3, 6.4, 6.6, 6.7, 6.8, 6.9, 6.10, 6.11
11B-10	Deviating from Procedures Used During Closure	60-64	1.0, 2.0, 4.0, 4.2, 5.0, 5.1, 5.2, 5.2.1, 5.2.2, 5.3

Table III-1: Procedures from Attachment 10.

13 14

12

III.1.B.ii. All instances where the emergency response number is cited as "811" shall be changed to "911."

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1 2 3 4	III.1.B.jj.	Part A Application, page 4 of 24, lines 18 and 19. Waste Code WC01 shall be deleted and the estimated annual volume of Waste Code WC02 shall be changed to 55,000 kilograms.
5 6 7 8	III.1.B.kk.	Page 2-8, line 3. The following sentence shall be added: "A mechanical fork truck lift and associated safety equipment (guards, handrails, etc.) are mounted on the containment pad. Design drawings of the mechanical fork truck lift are provided in Appendix 4B."
10 11 12 13	III.1.B.II.	Page 2-16, lines 30 and 32. The address "7601 West Clearwater, Suite 102" shall be changed to "1315 West Fourth Avenue" and the telephone number "509-546-2990" shall be changed to "509-735-7581."
14 15 16	III.1.B.mm.	Page 2-18, line 38. The following bullet shall be added: "• Evidence tape from field verified waste is untampered."
17 18 19 20 21 22 23 24	III.1.B.nn.	Page 3-1, lines 12 through 14. The sentence beginning with "Nonradioactive dangerous waste" shall be deleted and replaced with the following: "The 616 NRDWSF stores nonradioactive dangerous waste that is received from generating units located on the contiguous Hanford Facility and from DOE-RL owned and operated generators located on noncontiguous areas near the Hanford Facility (e.g., Federal Building and 712 Building in downtown Richland and the 3000 Area). This waste is stored at the 616 NRDWSF until it is transported to an offsite TSD facility."
25 26 27	III.1.B.00.	Page 3-1, line 20. The term "onsite" shall be deleted and replaced with "DOE-RL owned and operated."
28 29 30	III.1.B.pp.	Page 3-1, lines 21 and 22. The sentence "Shipments are made from onsite generating units to the 616 NRDWSF." shall be deleted.
31 32 33	III.1.B.qq.	Page 3-1, line 22. The term "onsite" shall be deleted and replaced with "Hanford Site." On line 26, the term "generated onsite" shall be deleted.
34 35	III.1.B.rr.	Page 3-2, lines 14 and 19. The term "Onsite" shall be deleted.
36 37	III.1.B.ss.	Page 3-3, lines 31 through 39. The paragraph on these lines shall be deleted.
38 39	III.1.B.tt.	Page 3-4, lines 3 and 16. The term "onsite" shall be deleted.
40 41	III.1.B.uu.	Page 3-5, lines 19, 36, 38, and 44. The term "onsite" shall be deleted.
42 43	III.1.B.vv.	Page 3-6, lines 13, 15, 19, 23, and 24. The term "onsite" shall be deleted.
44	III.1.B.ww.	Page 3-7, line 32. The term "suction pump," shall be added after the word "device."

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1	III.1.B.xx.	Page 3-8, line 8. The term "onsite" shall be deleted.
2		
3	III.1.B.yy.	Page 3-8, lines 37 through 40. The paragraph on these lines shall be deleted and
4		replaced with the following: "All waste received at the 616 NRDWSF, as described in
5		Section 3.1, is subject to the confirmation of designation sampling requirements
6		described in Section 3.2. Each shipment of waste received at the 616 NRDWSF must
7		be accompanied by accurate and complete waste tracking forms for waste received
8		from onsite sources and uniform hazardous waste manifests for waste received from
9		offsite sources."
10	ı	·
11	III.1.B.zz.	Page T4-2, line 31. The word "cabinet" shall be replaced with "cabinet(s)."
12	•	
13	III.1.B.aaa.	Page T4-2, line 34. The following option shall be added: "or 34 (55 gal) 34 (30 gal)
14		(208.2 liters) (113.6 liters) 2 Flammable liquid storage cabinets (170 gal) (1,024
15		liters."
16		
17	III.1.B.bbb.	Page APP 4B-ii. On line 12, the term "Rev. 2" shall be replaced with "Rev. 4." At
18		line 13, the following shall be added:
19 .	,	
20		"ECN 191786 (10/28/93)
21		ECN 176589 (11/16/93)
22		ECN 605639 (01/17/94)
23		ECN 605649 (08/01/94)"

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1			CHAPTER 2
2 3			
4			305-B Storage Facility
5			200 2 Storage Lucinity
6			
7	The 305-B S	torage Facility (305-B)	is an active storage unit for dangerous wastes and mixed wastes.
8	These wastes	are derived primarily fi	rom research and development activities and laboratory activities
9	in the 300 A	rea. This Chapter sets f	orth the operating Conditions for this TSD unit.
10	111 0 4	G03 (D7 713 (GD 77	
11	III.2.A.	COMPLIANCE WI	TH APPROVED PERMIT APPLICATION
12 13		The Domeitteen shall	Committee all the committee of Court in the 206 P. Cou
14			comply with all the requirements set forth in the 305-B Storage Waste Permit Application, as found in Attachment 18 including
15			cified in Condition III.2.B. Enforceable portions of the application
16		are listed below (All	subsections, figures, and tables included in these portions are also
17.		enforceable unless s	
18			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
19		Part A Application	
20			e e
21		Section 2.1.2	The 305-B Storage Unit
22 23		Section 2.2.1	Company Descriptions
24		Section 2.2.1	General Requirement
25		Section 2.5	Performance Standard
26		50011011 2.5	1 0/10/maileo Daniella
27		Section 2.6	Buffer Monitoring Zones
28			· ·
29		Section 2.8	Manifest System
30			
31		Chapter 3.0	Waste Characteristics
32		Chantan 4.0	D Y. C
33 34		Chapter 4.0	Process Information
35		Chapter 6.0	Procedures to Prevent Hazards
36		onapior o.o	1 1000ddios to 1 10voit Hazards
37		Chapter 7.0	Contingency Plan
38		•	
39		Chapter 8.0	Personnel Training
40			
41		Chapter 11.0	Closure and Postclosure Requirements
42 43		Chapter 12.0	Donostino and Donostino
44		Chapter 12.0	Reporting and Recordkeeping

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		0 4 100	T 1 0 1
1		Section 13.8	Toxic Substances Control Act
2		Section 13.9	Other Description
3 4		Section 13.9	Other Requirements
5		Amandia 2A	Lianford City and 200 Augus Tanananahin Mana Platas 2.2
6		Appendix 2A	Hanford Site and 300-Area Topographic Maps, Plates 2-2
7			Through 2-9
8	III.2.B.	AMENDMENTS TO T	HE APPROVED PERMIT APPLICATION
9	111.2.2.	AMILIADIMINIS TO I	TIL ATTROVED FERMIT ATTEICATION
10	III.2.B.a.	For all chinments of dan	gerous waste to or from this TSD unit, except for shipments
11	111.2.0.4.	-	nin the 300 Area, the Permittees shall comply with Conditions
12			ermit regarding dangerous waste shipment manifesting and
13		transportation.	mine regulating amingerous waste simplified intuitioning and
14		a and position.	•
15	III.2.B.b.	Page 3-5 line 41. The f	following text is added: "The 305-B personnel shall collect
16	111.2,12.0.	-	(s) the information pursuant to 40 CFR 268.7(a) regarding
17			d (LDR) wastes, the appropriate treatment standards, whether
18			tment standards, and the certification that the waste meets the
19			ecessary, as well as any waste analysis data that supports the
20			ns. If this information is not supplied by the generating unit,
21			shall be responsible for completion and transmittal of all
22			regarding LDR wastes, pursuant to 40 CFR 268.7(b). All
23			e-characterized at least annually, or when generating unit
24			have reason to believe the waste stream has changed, to
25			ith LDR requirements in 40 CFR 268."
26			•
27	III.2.B.c.	Page 3-9, line 16. The f	following is added to the end of this section: "Storage limits for
28		all chemicals are listed in	n Table 4-1, page 4-18, and 4-19 (Uniform Building Code,
29		Table numbers 9-A and	9-B). This table is incorporated into this section by
30		reference."	
31			
32	III.2.B.d.	Page 3-10, line 27. The	following paragraphs are inserted into this section:
33			
34		-	rastes at 305-B, confirmation of designation may be required
35			astes which shall undergo confirmation of designation are
36			II.2.B.f. of this Permit and may be divided into two groups;
37			representative sample (Category I), and those that do not
38			s for each type are outlined below along with a description of
39		which wastes fall into ea	ich category:
40	•	A 7 70	
41			which easily yields a representative sample is received a
42			ill be taken from the waste containers selected. If more than
43	•	" =	ch phase must be tested individually. The following field tests
44		will be performed:	

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- Reactivity HAZCATTM oxidizer, cyanide, and sulfide tests. These tests will not be performed on materials known to be organic peroxides, ethers, and/or water reactive compounds.
- Flashpoint/explosivity by HAZCATTM flammability procedure, explosive atmosphere meter¹, or a closed cup flashpoint measurement instrument¹.
- pH by pH meter¹ or pH paper (SW-846-9041).² This test will not be performed on non-aqueous materials.
- Halogenated organic compounds by Chlor-D-TectTM kits.
- Volatile organic compounds by photo or flame ionization tester¹, by gas chromatography with or without mass spectrometry, or by melting point and/or boiling point determination.

These instruments are field calibrated or checked for accuracy daily when in use.

²The pH paper must have a distinct color change every 0.5 pH unit and each batch of paper must be calibrated against certified pH buffers or by comparison with a pH meter calibrated with certified pH buffers.

If the sample data observed meets the parameters specified in its documentation, within a 10% tolerance, confirmation of designation is complete and the waste may be accepted. If not, the waste is rejected and returned to the generating unit, and sampling and analysis of the waste is required to be included with a resubmitted CD/RR.

When mathematically possible, the Permittees shall perform confirmation on an equal number of Category I and Category II containers.

Category II. If a representative sample is not easily obtained (for example, discarded machinery or shop rags) or if the waste is a labpack or discarded laboratory reagent container, the following steps will be performed:

Visually verify the waste. Examine each selected container to assure that it a. matches the data provided on the CD/RR form(s) provided to document the waste. Labpacks and combination packages must be removed from the outer container. If the waste matches the description specified in its documentation, confirmation of designation is complete and the waste may be accepted. If not, the waste is rejected and returned to the generating unit, and the generating unit revises and resubmits the documentation to reflect the actual contents. If necessary, the waste shall be re-designated utilizing the designation methods identified in WAC 173-303-070 through 173-303-100."

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1 2 3 4 5	III.2.B.e.	Page 3-10, line 32. The following is added to the end of this section: "Wastes must be analyzed using the TCLP in accordance with Appendix II of 40 CFR 261, as amended, in order to provide sufficient information for proper management and for decisions regarding Land Disposal Restrictions pursuant to 40 CFR 268."
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	III.2.B.f.	Page 3-16, lines 24-28. Replace the existing language with: "At least five percent (5%) of the waste containers received at 305-B during a Federal fiscal year (October 1 through September 30) will undergo confirmation of designation pursuant to Sections 3.2.2 and 3.2.3 (Test Methods and Sampling Methods, respectively). The number of containers needed to meet the 5% requirement is 5% of the average of containers for the previous three months. For example if 200 containers are received in January, 180 in February, and 220 in March, then 10 containers of received waste must undergo confirmation of designation in April. All generating units which ship more than twenty (20) containers through 305-B in a fiscal year will have at least one (1) container sampled and analyzed. Containers for which there is insufficient process knowledge or analytical information to designate without sampling and analysis may not be counted as part of the five percent requirement unless there is additional confirmation of designation independent of the generator designation. The generating unit's staff shall not select the waste containers to be sampled and analyzed other than identifying
21 22 23 24 25 26 27		Containers for which insufficient information is available to designate. Containers of the following are exempt from the confirmation calculation above: Laboratory reagents or other unused products such as paint, lubricants, solvent, or cleaning products, whether received for redistribution, recycling, or as waste. To qualify for this exemption, such materials must be received at 305-B in their original containers."
28 29	III.2.B.g.	Page 4-1, line 30. "and -630" is added after "WAC 173-303-190" in this sentence.
30 31 32 33	III.2.B.h.	Page 4-1, line 45. Added to the end of this section is the following sentence: "Containers utilized for off-site shipment shall also comply with WAC 173-303-190(2) and (3). 305-B personnel shall comply with WAC 173-303-190(4)."
34 35 36 37	III.2.B.i.	Page 4-24, line 21. The following paragraph is added to the end of Section 4.1.1.8.: – "Verification sampling shall be carried out in accordance with Section 11.1.4.4. (Methods for sampling and testing to demonstrate success of decontamination)."
38 39	III.2.B.j.	Page 7-3, line 1. This line is deleted.
40 41 42 43 44	III.2.B.k.	Page 7-3, line 28. The following is added to the end of this Section: "The names and work phone numbers of the 305-B Emergency Coordinator(s) shall be submitted to Ecology and the Agency and kept at the Single Point contact and with the contingency plan at the 305-B Unit."

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1 2 3	III.2.B.I.	Page 7-6, line 2. The following is added to this Section: "Samples of spilled or released material(s) shall be taken in accordance with the WAP found in Section 3.2."
4 5 6	III.2.B.m.	Page 7-13, line 46. Added to the end of the second to last sentence is the following: "pursuant to WAC 173-303-360(2)(j)."
7 8 9 10	III.2.B.n.	Page 7-23, line 35. The following bullet is added to this Section: "All local police and fire departments, hospitals, and State and local response teams that may be called upon to provide emergency services."
11 12 13	III.2.B.o.	Page 8-2, line 28. The "I"s are replaced by "B"s on this line, changing the training frequency for Hazardous Waste Shipment Certification from initially to biennially.
14 15 16 17 18	III.2,B.p.	Page 8-2, line 30. A "B ⁴ " is inserted replacing the "N" under the vertical column for TS (Waste Management Technicians and Technical Specialists), requiring that they receive Radioactive Material Shipping Representative training biennially. Footnote 4 shall be changed to read: "Required for staff directly responsible for radioactive material shipments."
20 21 22	III.2.B.q.	Page 11-1, line 44. Added to the end of this Section is the following: "Spill reports and logs shall be consulted to determine potential areas of contamination."
23 24 25	III.2.B.r.	Page 11-3, line 51. Prior to the words "will also be performed.", the following is added: "or areas of documented spills or releases."
26 27 28 29 30 31	III.2.B.s.	Page 11-8, lines 4 and 7. The following language is inserted after the words Low-Level Radioactive on line 4 and Nonregulated on line 7, respectively, replacing the current language: "Shall be handled in accordance with the Liquid Effluent Consent Order (No. DE 91NM-177) and Milestone M-17 of the Hanford Federal Facility Agreement and Consent Order."
32 33 34	III.2.B.t.	Page 11-8, line 25. Prior to the words "will also be performed", the following is added: "or areas of documented spills or releases".
35 36 37 38	III.2.B.u.	Page 11-13, line 39. The words "annually during closure activities" are deleted from the end of this sentence and replaced with: "in accordance with Condition II.H.1." of this Permit.
39 40	III.2.B.v.	Page 12-1, lines 7-9. The sentence beginning "Many of the records" is deleted.
41 42	III.2.B.w.	[Reserved]
43 44	III.2.B.x.	Page 12-10, line 37. Added to the end of this sentence is the following: "and Condition I.E.15. of the Facility Wide Permit."

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1 2	III.2.B.y.	[Reserved]
3	III.2.B.z.	[Reserved]
5 6 7 8 9 10 11	III.2.B.aa.	Page 13-2, line 42. This sentence is deleted and replaced with the following: "Wastes containing polychlorinated biphenyls (PCB), which are subject to regulation under the Toxic Substances Control Act (TSCA), are stored in the 305-B Storage Unit. These wastes are stored for periods less than one (1) year before shipment to a disposal facility permitted under TSCA. Storage of PCB wastes in 305-B for periods less than one (1) year will continue to be done in compliance with applicable TSCA regulations in 40 CFR Part 761."
13 14 15 16	III.2.B.bb.	Part A Application, Page 3Q of 5, lines 10 and 11. Waste Code WC01 shall be deleted and the estimated annual volume of Waste Code WC02 shall be changed to 2,000 kilograms.
17	III.2.B.cc.	Page 2-15, lines 30 and 31. The term "1988" shall be changed to "1991."
18 19 20 21 22 23 24 25 26 27 28	III.2.B.dd.	Page 4-17, lines 23-36. The text on these lines shall be deleted and replaced with the following: "4.1.1.6.11 RMW Storage Area. Radioactive mixed waste that is not flammable per UFC (i.e., flash point above 100 degrees F) is stored in a special area in the basement of 305-B. For additional segregation capability, there are six small chemical storage cabinets and four 5 ft. X 5 ft. stainless steel "container pans" with 12 in. sides. The containment pans are mounted to the floor or wall of the cell to provide segregated storage for potentially incompatible mixed waste streams. Drums stored in this are stored on pallets to prevent potential contact with spilled waste in containment during an emergency. A diagram of this area is provided in Figure 4-9."
29 30 31 32 33 34		In normal use, the storage capacity of this area is limited by the radionuclide limits imposed by the DOE for "low inventory facilities." These limitations are defined in DOE-STD-1027-92, <u>Hazard Characterization and Accident Analysis Techniques for Compliance with DOE Order 5480.23</u> , <u>Nuclear Safety Analysis Reports</u> , and are included in the radiation work permit for the mixed waste storage area."
35 36 37	III.2.B.ee.	Page 6-1, lines 46-52. The paragraph beginning with the word "Access" shall be deleted.
38 39	III.2.B.ff.	Page 6-3, lines 15-18. The first two sentences of this paragraph shall be deleted.
40 41 42	III.2.B.gg.	Page 6-16, lines 15-19. The first five bullets shall be deleted and replaced with the following: "• 6 sets of chemically resistant suits, aprons, boots, and gloves."
43 44	III.2.B.hh.	Page 7-17, lines 5-9. The first five bullets shall be deleted and replaced with the following: "• 6 sets of chemically resistant suits, aprons, boots, and gloves."

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1	III.2.B.ii.	Page 8-3, line 24. The following shall be added to the text: "Equivalent training may
2		be taken in place of the training identified in Figure 8-1 with approval from the 305-B
3		Unit Operating Supervisor or the Waste Management Section Manager.
4		Documentation of the training substitution will be placed in the operating record
5		(within seven (7) days after the training was received) accompanied by a narrative
6		explanation, and the date of the training. The documentation shall be made available
7		to the Department or EPA during inspections for assessment. If the Department or
8		EPA determines that the training substitution was not equivalent to the original, the
9		original training will be taken or an acceptable substitution will be found."

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PART IV - CORRECTIVE ACTIONS FOR PAST PRACTICES

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The HSWA Permit is issued by the Agency in conjunction with this Permit. Upon delegation of the Corrective Action requirements of the HSWA by the Agency to the Department, the Permit shall be modified to incorporate the specific requirements of the HSWA Permit into this Permit. This modification shall be considered a Class 3 modification in accordance with Condition I.C.3. Until this modification is complete, compliance with the terms of the referenced provisions, shall be deemed as compliance with WAC 173-303-646.

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1	PART V	' - UNIT-SPECIFIC (CONDITIONS FOR UNITS UNDERGOING CLOSURE	
2			•	
3				
4		CHAPTER 1		
5				
6				
7			183-H Solar Evaporation Basin	
8			•	
9	•			
10	The 183-H So	olar Evaporation Basins	(Basins) comprise an inactive TSD unit that is currently	
11	undergoing pe	rmanent closure activiti	ies. This TSD unit was operated as an evaporation treatment unit	
12	for dangerous	wastes. This Chapter s	sets forth the closure requirements for this TSD unit.	
13			•	
14	V.1.A.	COMPLIANCE WI	TH APPROVED CLOSURE PLAN	
15			····	
16		The Permittees shall	comply with all requirements set forth in the 183-H Solar	
17		Evaporation Basins	Closure Plan/Postclosure Plan (Plan), found in Attachment 11,	
18			nents specified in Condition V.1.B. Enforceable portions of the	
19		Plan are listed below	(All subsections, figures, and tables included in these portions	
20	•	are also enforceable	unless stated otherwise):	
21				
22		Part A Application		
23		·		
24		Section I.	General Closure Requirements, Introduction (Pages I-1	
25		·	through I-6)	
26		<i>a</i>		
27		Section I.A-1.	Minimize Need for Post-Closure Maintenance and Controls	
28		Cartina I A O	Add to the control of	
29 30		Section I.A-2.	Minimize Post-Closure Escape of Dangerous Waste	
31		Section I.B.	Content of Clarence Plan	
32		Section I.B.	Content of Closure Plan	
33		Section I.C.	Continue of Clause Commun. Dist. Marking in Day 1	
34		Socion I.C.	Certification of Closure, Survey Plat, Notice in Deed, and Financial Requirements	
35			rmanciai Requirements	
36		Section II.B-1.	Preliminary Cover Design	
37		bootton n.b 1.	Trommary Cover Design	
38		Section III.A-1.	Inspection Plan	
39			mspootion x turi	
40		Section III.A-2g.	Monitoring Plan Proposed to be Conducted Until Issuance of	
41			Final Status Post-Closure Permit	
42				
43		Section III.A-3.	Maintenance Plan	
44				

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1		Section III.B.	Personnel Training
2 3		Section III.C.	Procedures to Prevent Hazards
4			
5	•	Section III.D.	Post-Closure Contact
6 7		Section III.E.	Amendment of Post-Closure Plan
8		Section RI.E.	Attendment of Post-Closure Flan
9		Section III.F.	Certification of Completion of Post-Closure Care
10			·
11		Appendix A	Topographical Maps
12		At* Y	D 1 . C '0 1 O II .' OI . CO . 1
13 14		Appendix L	Procedures for Sample Collection, Chain of Custody, and Field Measurements
15			ricid incasticilicitis
16		Appendix M	Analytical Methods and Quality Control Procedures
17		PP	
18		Appendix N	Personnel Training for Closure Activities
19			
20	V.1.B.	AMENDMENTS TO T	THE APPROVED CLOSURE PLAN
21 22	V.1.B.a.	Page I-1 lines 9-12 TI	he sentence found here is deleted and replaced with the
23		-	y, the 183-H Basins will be closed in accordance with the most
24		-	oplicable environmental regulations and laws as well as the
25		FFACO. New or modif	fied regulations and laws may require closure activities and/or
26		the closure plan to be m	odified."
27	X7 1 D 1.	D I 100 1' - 46 TTL	C XVA C 177 202 700 1 1 1 . 1
28 29	V.1.B.b.	Page 1-108, line 46. 1 h	e reference to WAC 173-303-700 is deleted.
30	V.1.B.c.	Page I-150, line 53. Th	e date of "October 1991" is deleted and replaced with "the first
31		October after the effecti	
32			•
33	V.1.B.d.	Page III-77, line 5. The	e phone number (509) 376-5411 is changed to (509) 375-4647.
34			-
35	V.1.B.e.		Occurrence Report or Off Normal Occurrence Report issued
36 37			an which is directly related to Basin closure shall be provided sin unit manager within seven (7) days after issuance. This
38			mittees from any other reporting requirements specified in Part
39		I or II of this Permit.	interes from any outer reporting requirements specified in rate
40		31 11 11 11 11 11 11 11 11 11 11 11 11	
41	V.1.B.f.	Annual closure cost esti	mates shall be provided to the Department as described in
42		Section I.C.4. of this clo	osure plan and Condition II.H.1. of this Permit.
43			

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1 2 3 4	V.1.B.g.	A written notification that closure has begun and will be conducted in accordance with the Plan, including these conditions to the Plan, shall be submitted to the Department within 30 days after the Plan is approved through issuance of this Permit.
5 6 7 8 9	V.1.B.h.	Concrete sampling and analysis activities (basin and background sampling) shall be conducted as described within the Plan and as augmented by the Decommissioning Work Plan (DWP) entitled "Concrete Sampling - 183-H Solar Evaporation Basins" (DWP-H-080-00001) as found in Attachment 12 of this Permit.
10 11 12 13 14 15 16	V.1.B.i.	Soil sampling and analyses activities (including Phases I and II, berm and background sampling) shall be conducted as described within the Plan and as augmented by DWP-H-080-00005 entitled "Core Drill Sampling - 183-H Solar Evaporation Basins (Phase I)"; WHC-SD-EN-AP-056 entitled "183-H Solar Evaporation Basins Vadose Zone Sampling Plan"; and DWP-H-026-00008 entitled "Berm Removal For 183-H Solar Evaporation Basins" as found in Attachments 13, 14, and 15, respectively, of this Permit.
18 19 20 21 22	V.1.B.j.	The results of Basin concrete sampling (including background sampling) shall be received by the Department within 180 days of the effective date of this Permit. This submittal shall include the raw analytical data, a summary of analytical results, a data validation package, and a narrative summary with conclusions.
23 24 25 26 27 28	V.1.B.k.	The results of Basin soil sampling (including Phases I and II, berm and background sampling) shall be received by the Department within 180 days of the effective date of this Permit. This submittal shall include the raw analytical data, a summary of analytical results, a data validation package, and a narrative summary with conclusions.
29 30 31 32 33 34 35 36 37	V.1.B.1.	The Department shall be provided, for review and approval, a sampling plan and the date of sampling for any sampling event not addressed above which provides data used to support Basin closure activities at least 30 days prior to initiating actual sampling activities. This condition applies to, but is not limited to, equipment and non-concrete structural sampling and verification sampling. The results of this sampling shall be submitted to the Department. These submittals shall include the raw analytical data, a summary of analytical results, a data validation package, and a narrative summary with conclusions.
38 39 40 41 42 43	V.1.B.m.	The Permittees shall submit to the Department, for approval, a notification indicating which closure option identified in Condition II.K. of this Permit will be utilized for the Basins. This notification shall be submitted at least 60 days prior to implementation of the option and shall be accompanied by the technical and regulatory justification for choosing the closure option along with any supporting documentation including, if necessary, the result of sampling per Conditions V.1.B.h. through V.1.B.l. This notification shall also be accompanied by a revised Figure I.B-20 of the Plan

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1 2		indicating a new closure schedule; however, the date of final closure shall not exceed eighteen (18) months after the effective date of this Permit. Implementation of the					
3		option cannot commence until receipt of the Department's written approval for the					
4		closure option.					
5		•					
6 7	V.1.B.n.	Regardless of the option chosen from Condition II.K., the Permittees and the independent, registered, professional engineer certifications of closure shall be					
8							
		prepared and submitted to the Department within 60 days of closure as described in					
9		Section I.C-1. of the closure plan.					
10	17.1.75	70 1 1011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
11	V.1.B.o.	If a landfill closure is chosen, the definitive design documents, construction					
12		specifications, construction drawings, and construction quality assurance plans for any					
13		engineered system (including a final cover system) shall be submitted to the					
14		Department pursuant to Condition I.C.3.					
15							
16	V.1.B.p.	After review of the documents identified in Condition V.1.B.o., the Department may					
17		issue a unit-specific Construction Inspection Plan (CIP). If the Department chooses to					
18		issue a CIP, the Department shall be provided with all submittals and notifications					
19		required by the CIP and within the time period identified in the CIP.					
20		•					
21	V.1.B.q.	If a landfill closure is chosen, notification of any of the following occurrences shall be					
22		provided to the Department within 30 days of observance until a postclosure permit is					
23		issued: settlement/sedimentation in the final cover greater than one (1) foot; actual					
24		vegetative cover canopy on the final cover less than 50 percent (50%) of a typical					
25		Hanford cover canopy six (6) months after closure; erosion of the final cover greater					
26		than six (6) inches; tampering or damage to wells or well heads. The notification must					
27		include the extent and cause of the occurrence as well as actions taken (or to be taken)					
28		to mitigate the occurrence.					
29		·					
30	V.1.B.r.	If a modified closure is chosen, the Permittees shall request any reduction of landfill					
31		requirements identified in the Plan pursuant to Condition I.C.3. This request shall be					
32		based upon the quantity and concentration of contamination which will remain in					
33		place, and shall meet the requirements of Condition II.K.3.					
34		place, and shall most the requirements of Condition 11,18.5.					
35	V.1.B.s.	If a modified closure or landfill closure is chosen, a survey plat shall be prepared and					
36	٧,1,1,5,	submitted to the Department, and the Benton County Planning Department no later					
37		than 60 days after certification of closure as described in Section I.C-2. of the Plan.					
		than 60 days after certification of closure as described in Section 1.C-2. of the Flan.					
38	W 1 D 4	If a madified alarma and landfill alarma is always a madian and built alarma.					
39 40	V.1.B.t.	If a modified closure or a landfill closure is chosen, a notice on the deed to the					
40		property shall be prepared and submitted to the Auditor of Benton County no later					
41		than 60 days after certification of closure as described in Section I.C-3. of the Plan.					
42		No later than 30 days after submitting this notice, a certification signed by the					
43		Permittees must be submitted to the Department that the notification has been recorded					
44		along with a copy of the notice itself.					

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i	V.1.B.u.	If a modified closure or landfill closure is chosen, a revision to the "Final Status
2		Postclosure Permit Application, 183-H Solar Evaporation Basins" (June 1988), shall
3		be submitted pursuant to Condition I.C.3. within 12 months of the Department's
4		approval of the closure option.
5		•
6	V.1.B.v.	Quarterly and annual ground water monitoring reports for the wells specified in the
7		Plan shall continue to be submitted to the Department until clean closure is
8		acknowledged by the Department in writing or as specified otherwise in a Basin
9		postclosure permit.

43

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1			CHAPTER 2			
2						
3						
4			300 Area Solvent Evaporator			
5			(Clean Closed)			
6			,			
7						
8	The 300 Area	Solvent Evaporator (3	300 ASE) is an inactive treatment unit which is currently			
9	undergoing permanent closure activities. This TSD unit was operated as an evaporation treatment unit					
10	for dangerous	wastes. This Chapter	sets forth the closure requirements for this TSD unit.			
11						
12	V.2.A.	COMPLIANCE W	<u>ITH THE APPROVED CLOSURE PLAN</u>			
13						
14		The Permittees shal	Il comply with all the requirements set forth in the 300 Area Solvent			
15			Plan (Plan), as found in Attachment 16, including the amendments			
16			on V.2.B. Enforceable portions of the Plan are listed below (All			
17			s, and tables included in these portions are also enforceable unless			
18		stated otherwise):				
19			•			
20		Part A Application				
21						
22		Section 1.1.1	Location and General Description			
23		0 4 110	771 000 4 6 1 7			
24 25		Section 1.1.2	The 300-Area Solvent Evaporator			
25 26		Section 1.2	Converte Information			
27		Section 1,2	Security Information			
28		Chapter 2.0	Closure Performance Activities			
29		Chapter 2.0	Closure renormance Activities			
30		Chapter 3.0	Description of Closure Activities			
31		Chaptor 5.0	Description of Closure Retrictes			
32		Chapter 4.0	Certification of Closure			
33		Chapter 1.0	Community of Closure			
34		Chapter 5.0	Post-closure -			
35		4	- 550 0.054.0			
36		Chapter 6.0	Procedures to Prevent Hazards			
37		•				
38		Chapter 7.0	Contingency Plan			
39		•	•			
40		Chapter 8.0	Personnel Training			
41			- -			
42		Section 9.8	Other Requirements			

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1		Appendix E	Soil and Concrete Sampling and Analysis Plan for the 300		
2			Area Solvent Evaporator		
3					
4	V.2.B.	AMENDMENTS T	O THE APPROVED CLOSURE PLAN		
5 6	V.2.B.a.	Aitton motiCastic	without alarmon has been used. 201 has a set of the set		
7	٧.٤.١٦.۵.	A written notification that closure has begun and will be conducted in accordance with the Plan, including these Conditions to the Plan, shall be submitted to the Department			
8			the Plan is approved through issuance of this Permit.		
9		within 50 days after	the Flan is approved unrough issuance of this Permit.		
10	V.2.B.b.	The results of all sampling required by this Plan shall be provided to the Department.			
11	V.2.D.0.	This submittal shall include the raw analytical data, a summary of analytical results, a			
12			age, and a narrative summary with conclusions.		
13		data variation pack	age, and a narrative summary with conclusions.		
14	V.2.B.c.	The Department sha	ll be provided, for review and approval, a sampling plan and the		
15	· .2.2.0.	date of sampling for	any sampling event not addressed in the Plan which provides data		
16		used to support 300	ASE closure activities at least 30 days prior to initiating actual		
17		sampling activities	The results of this sampling shall be submitted to the Department.		
18		These submittals sh	all include the raw analytical data, a summary of analytical		
19		results, a data valida	tion package, and a narrative summary with conclusions.		
20		,	non paolingo, and a narrative samming with contrasions.		
21	V.2.B.d.	Annual cost estimate	s shall be provided to the Department as described in Section 5.2.		
22		of this closure plan a	nd Condition II.H.1. of this Permit. At Page 5-2, line 6, delete		
23		"October 1993", and	replace it with "the first October after the effective date of this		
24		Permit."			
25					
26	V.2.B.e.	The Permittees shall	notify the Department, in writing, if the initial action levels in		
27		Table 3-2 of the Plan	are exceeded. The notification shall either include a request for		
28		the Department's app	proval of alternative action levels or identify the interim measures		
29			ASE until closure activities are performed in conjunction with		
30		the 300-FF-2 Operat	ole Unit.		
31	Wans	Tribus The control of the			
32 33	V.2.B.f.	The Permittees and t	he independent, registered, professional engineer certifications of		
33 34			ared and submitted to the Department by registered mail within 60		
3 4 3 5			scribed in Section 4.0. of the Plan. The Permittees shall continue		
36			SE as a dangerous waste management unit until receipt of the		
3 0 37		Doparunent's written	notification that the 300 ASE is accepted as clean closed.		
38	V.2.B.g.	The Permittees shall	complete 300 ASE closure activities within 180 days after the		
39		effective date of this			
		Jirounto dato or uns	a villity,		

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1			CHAPTER 3
2			
3			•
4		2727-S Nonr	adioactive Dangerous Waste Storage Facility
5			(Clean Closed)
6			
7		.	
8			crous Waste Storage Facility (2727-S) is an inactive storage unit
9			nanent closure activities. This TSD unit was operated as a storage
10	unit for dan	igerous wastes. This C	hapter sets forth the closure requirements for this TSD unit.
11	***	COMPLIANCE !	AMERICAN ADDROVED OF OCCUPE DATA
12	V.3.A.	<u>COMPLIANCE \</u>	WITH THE APPROVED CLOSURE PLAN
13		The Daniel 140 and 11	.11
14			all comply with all the requirements set forth in the 2727-S
15			angerous Waste Storage Facility Closure Plan (Plan), as found in cluding the amendments specified in Condition V.3.B. Enforceable
16 17			an are listed below (All subsections, figures, and tables included in
18		•	also enforceable unless stated otherwise):
19		mese pornons are	also emolecable unless stated otherwise).
20		Part A Application	n
21		t art A Application	11
22		Section 1.1	Location Information
23			
24		Section 1.2	Security
25			•
26		Section 1.3	Facility Description and Operations
27			
28		Chapter 2.0	Closure Performance Standard
29			
30		Chapter 4.0	Closure Activities
31		en	
32		Chapter 5.0	Contingency Plan
33		C1	
34		Chapter 6.0	Training Requirements
35		Chanton 7.0	Classes Dlan Cahadula
36 37		Chapter 7.0	Closure Plan Schedule
38		Appendix F	Sampling and Handling Procedures
39		Appendix	Sampling and Handling Hoccourts
40		Appendix G	Quality Assurance Project Plan
41		F F	(
42		Appendix H	Personnel Training
43		••	
44	\$	Appendix I	Certification Statements

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1 2	V.3.B.	AMENDMENTS TO THE APPROVED CLOSURE PLAN
3 4 5 6	V.3.B.a.	A written notification that closure has begun and will be conducted in accordance with the Plan, including these Conditions to the Plan, shall be submitted to the Department within 30 days after the Plan is approved through issuance of this Permit.
7 8 9 10	V.3.B.b.	The results of all sampling required by this Plan shall be provided to the Department. This submittal shall include the raw analytical data, a summary of analytical results, a data validation package, and a narrative summary with conclusions.
11 12 13 14 15 16	V.3.B.c.	The Department shall be provided, for review and approval, a sampling plan and the date of sampling for any sampling event not addressed in the Plan which provides data used to support 2727-S closure activities at least 30 days prior to initiating actual sampling activities. The results of this sampling shall be submitted to the Department. These submittals shall include the raw analytical data, a summary of analytical results, a data validation package, and a narrative summary with conclusions.
18 19 20	V.3.B.d.	Annual cost estimates shall be provided to the Department as described in Section 4.6. of this closure plan and Condition II.H.1. of this Permit.
21 22 23 24 25	V.3.B.e.	The Permittees shall notify the Department, in writing, if clean closure concentrations cannot be achieved. The notification shall include a justification for not completing clean closure requirements and a plan to address dangerous waste postclosure requirements at 2727-S.
26 27 28 29 30	V.3.B.f.	The Permittees and the independent, registered, professional engineer certifications of closure shall be prepared and submitted to the Department by registered mail within 60 days of closure as described in Section 4.7 of the Plan. The Permittees shall continue to address 2727-S as a dangerous waste management unit until receipt of the Department's written notification that 2727-S is accepted as clean closed.
32 33 34	V.3.B.g.	The Permittees shall complete 2727-S closure activities within 180 days after the effective date of this Permit.

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1	<u>CHAPTER 4</u>			
2				
3				
4		Simulated High Lev	vel Waste Slurry Treatment and Storage Unit	
5			(Clean Closed)	
6			(Cicali Ciosci)	
7				
8	The Ci1.41	YT:-t-Y1337 4 G1	T 10	
	i ne Simulated	Fligh Level Waste Slur	ry Treatment and Storage Unit (SHLWS) is an inactive storage	
9	and treatment	unit which is currently i	undergoing permanent closure activities. This TSD unit was	
10	operated as a s	storage and treatment ur	nit for simulated slurry as a test operation in connection with the	
11	grout project.	This Chapter sets forth	the closure requirements for this TSD unit.	
12				
13	V.4.A.	COMPLIANCE WIT	H APPROVED CLOSURE PLAN	
14				
15		The Permittees shall of	comply with all the requirements set forth in the SHLWS Closure	
16		Plan (Plan) as found	in Attachment 19, including the amendments specified in	
17		Condition V A D. End	breachle marking of the Diaman Park to the termination of the Diaman Park to the Diaman P	
18		Condition V.4.B. Em	orceable portions of the Plan are listed below (all subsections,	
			cluded in these portions are also enforceable unless stated	
19		otherwise):		
20				
21		Section 1.2	Part A Permit Application	
22				
23		Section 2.3	Description of the SHLWS T/S Unit/Physiography	
24				
25		Section 2.4	Location Information	
26				
27		Section 3.1	Characteristics of Untreated Waste	
28				
29		Section 3.2	Characteristics of Treated Waste	
30		•		
31		Section 6.1	General Closure Requirements	
32				
33		Section 6.2	General Post-Closure Requirements	
34		3000.0	outer tost closure requirements	
35		Section 6.3	Closure of Chemical, Physical, and Biological Treatment	
36		Beetion 6.5	Units	
37			Ones	
38		A 3i A	0. 1' 14 t ' 21	
		Appendix A	Sampling and Analysis Plan	
39	•	4 1: 5		
40		Appendix B	Quality Assurance Project Plan	
41				
42	V.4.B.	AMENDMENTS TO THE APPROVED CLOSURE PLAN		
43				
44	V.4.B.a.	A written notification	stating closure has been and will continue to be conducted in	
45			lan, including the conditions of the Plan, shall be submitted to	
46		the Department within	30 days after the effective date of Revision 1 to this Permit.	
47		are reparament within	1 20 days after the effective date of Revision 1 to this Permit.	
7/				

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1	V.4.B.b.	The Permittees shall notify the Department, in writing, if at any time it is determined
2		the clean closure levels specified in this plan are exceeded.
3		
4	V.4.B.c.	The Permittees and the independent, registered, professional engineer certification of
5		closure shall be prepared and submitted to the Department by registered mail within 60
6		days of closure as described in the Plan. The Permittees shall continue to address the
7		unit as a dangerous waste management unit until receipt of the Department's written
8		notification stating the unit is accepted as clean closed.
9		·
10	V.4.B.d.	The Permittees shall complete SHLWS closure activities 180 days after the effective
11		date of Revision 1 to this Permit.
12		
13	V.4.B.e.	Any remaining solid waste at the unit, generated during soil sampling and
14		decontamination activities, shall be designated according to the analytical results of
15		these activities and managed accordingly. The Department shall be informed in
16		writing of the final disposition of the waste.
17		

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1			CHAPTER 5
2			
3		211	OFFICE. THE THE CLE
4 5		213	8-E-8 Borrow Pit Demolition Site
6			
7	The 218-E-8	Borrow Pit Demolition	a Site (218 BPDS) is an inactive treatment unit which is currently
8	undergoing p	ermanent closure activ	ities. This TSD unit was operated as an open burning/open
9	detonation un	it for dangerous waste	s. This Chapter sets forth the closure requirements for this TSD
10	unit.		o. This chapter sees total the closure requirements for this 13D
11			
12	V.5.A.	COMPLIANCE W	TTH APPROVED CLOSURE PLAN
13			
14		The permittees shall	Il comply with all the requirements set forth in the 218-E-8 Borrow
15		Pit Demolition Site	Closure Plan (Plan), as found in Attachment 20, including the
16		amendments specifi	ied in condition V.5.B. Enforceable portions of the Plan are listed
17		below (all subsection	ons, figures, and tables included in these portions are also
18		enforceable unless	
19			,
20		Part A Application	
21			
22		Section 2.2.2	Facility Description and General Provisions
23		0	B 111 COLONION DE DE COLO
24 25		Section 2.2.3	Description of 218-E-8 Borrow Pit Demolition Site
26		Section 2.4	Security Information
27		500H0H 2, 1	boodity information
28		Chapter 3.0	Process Information
29			
30		Chapter 4.0	Waste Characteristics
31			
32		Chapter 5.0	Groundwater Monitoring
33			
34		Chapter 6.0	Closure Strategy and Performance Standards
35		 -	
36		Chapter 7.0	Closure Activities
37		O1	
38		Chapter 8.0	Postclosure Plan
39		Annondin 4A	Tanisia Data
40 41		Appendix 4A	Toxicity Data
42		Appendix 7A	Quality Accurance Project Plan for Sail Samuling and
43		rippolitik //k	Quality Assurance Project Plan for Soil Sampling and Analysis for the 218-E-8 Borrow Pit Demolition Site

44

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1		Appendix 7B	Training Course Descriptions
2		Appendix 7C	Sampling and Analysis Plan
4			• •
5	V.5.B.	AMENDMENTS TO T	HE APPROVED CLOSURE PLAN
6			
7	V.5.B.a.		ating closure has begun and will be conducted in accordance
8			these additional conditions to the Plan, shall be submitted to
9		the Department within 3	0 days after the effective date of Revision 1 to this Permit.
10	77.50		
11	V.5.B.b.		ng required by this Plan shall be provided to the Department.
12			ude the raw analytical data, a summary of analytical results, a
13 14		data validation package,	and a narrative summary with conclusions.
15	V.5.B.c.	The Donortment chall be	e provided, for review and approval, a sampling plan and the
16	V.J.D.C.	-	s sampling event not addressed in the Plan which provides data
17			DS closure activities at least 30 days prior to initiating actual
18			e results of this sampling shall be submitted to the Department.
19			iclude the raw analytical data, a summary of analytical results,
20			ge, and a narrative summary with conclusions.
21		u unu ruuuron puonog	,-, u
22	V.5.B.d.	The Permittees shall not	ify the Department, in writing, if the action levels as defined in
23		Section 6.1 of the Plan a	are exceeded. The notification shall either include a request to
24			estigation to determine further sampling activities or remedial
25			nterim measures to be taken at the 218 BPDS until closure
26		activities are performed	in conjunction with the 200-PO-6 Operable Unit.
27		and the terminal of the termin	
28	V.5.B.e.		ndependent, registered, professional engineer certification of
29			d and submitted to the Department by registered mail within 60
30 31		- ,	ribed in Section 6.3.2 of the Plan. The Permittees shall
32			218 BPDS as a dangerous waste management unit until receipt ten notification stating the 218 BPDS is accepted as clean
33		closed.	ten notification stating the 216 Bi DS is accepted as citali
34		010004.	_
35	V.5.B.f.	The Permittees shall cor	nplete 218 BPDS closure activities within 180 days after the
36		effective date of Revisio	

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1			CHAPTER 6	
2				
3		200 Was	t Area Ash Pit Demolition Site	
4 5		200 West Area Ash Fit Demoition Site		
6				
7	The 200 West	Area Ash Pit Demolition	Site (200 APDS) is an inactive treatment unit which is	
8			activities. This TSD unit was operated as an open	
9	burning/open d	etonation unit for dangero	ous wastes. This Chapter sets forth the closure requirements	
10	for this TSD un	ait.		
11				
12	V.6.A.	COMPLIANCE WITH	APPROVED CLOSURE PLAN	
13		erei ' i ii	1 21 11 11 11 2 2 2 2 2 2 2 2 2 2 2 2 2	
14		_	mply with all the requirements set forth in the 200 West Area	
15			Closure Plan (Plan), as found in Attachment 21, including the condition V.5.B. Enforceable portions of the Plan are listed	
16 17		•	figures, and tables included in these portions are also	
18	1	enforceable unless state	<u>-</u>	
19			u outor (1100).	
20		Part A Application		
21		**	•	
22		Section 2.2.2	Facility Description and General Provisions	
23				
24		Section 2.2.3	Description of 200 West Area Ash Pit Demolition Site	
25		G :: 0.4	G '- X G	
26		Section 2.4	Security Information	
27 28		Chapter 3.0	Process Information	
28 29		Chapter 5.0	Flocess infolliation	
30		Chapter 4.0	Waste Characteristics	
31		-	, 1000	
32		Chapter 5.0	Groundwater Monitoring	
33		-	-	
34		Chapter 6.0	Closure Strategy and Performance Standards -	
35				
36		Chapter 7.0	Closure Activities	
37		Cl 9 0	Destale way Disc	
38		Chapter 8.0	Postclosure Plan	
39 40		Appendix 4A	Toxicity Data	
41		Tipponum TA	Tomony Data	
42		Appendix 7A	Quality Assurance Project Plan for Soil Sampling and	
43			Analysis for the 200 West Area Ash Pit Demolition Site	

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I 2		Appendix 7B	Training Course Descriptions
3		Appendix 7C	Sampling and Analysis Plan
4 5 6	V.6.B.	AMENDMENTS T	O THE APPROVED CLOSURE PLAN
7 8 9	V.6.B.a.	with the Plan, include	on stating closure has begun and will be conducted in accordance ding these additional conditions to the Plan, shall be submitted to ain 30 days after the effective date of Revision 1 to this Permit.
11 12 13 14	V.6.B.b.	This submittal shall	include the raw analytical data, a summary of analytical results, a tage, and a narrative summary with conclusions.
15 16 17 18 19 20 21	V.6.B.c.	date of sampling for used to support 200 sampling activaties. Department. These	any sampling event not addressed in the Plan which provides data APDS closure activities at least 30 days prior to initiating actual. The results of this sampling shall be submitted to the submittals shall include the raw analytical data, a summary of data validation package, and a narrative summary with
23 24 25 26 27 28	V.6.B.d.	Section 6.1 of the Pl develop a phase two actions or identify the	notify the Department, in writing, if the action levels as defined in lan are exceeded. The notification shall either include a request to investigation to determine further sampling activities, or remedial ne interim measures to be taken at the 200 APDS until closure med in conjunction with the 200-SS-2 Operable Unit.
29 30 31 32 33 34 35	V.6.B.e.	closure shall be prep days of closure, as of continue to address	the independent, registered, professional engineer certification of pared and submitted to the Department by registered mail within 60 described in Section 6.3.2 of the Plan. The Permittees shall the 200 APDS as a dangerous waste management unit until receipt written notification stating the 200 APDS is accepted as clean
36 37	V.6.B.f.		complete 200 APDS closure activities within 180 days after the vision 1 to this Permit.

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1			CHAPTER 7
2			
3			
4			2101-M Pond .
5			
6 7	The 2101 M B	and is undersains norma	mont alarma anticiti a TTI in a transport to the TTI in a transport to
8	unit for potent	ially dangerous waste. T	nent closure activities. This unit was operated as a disposal his chapter sets for the closure requirements for this TSD unit.
9	•	, , ,	and the state of t
10 11	V.7.A.	COMPLIANCE WITH	I APPROVED CLOSURE PLAN
12		The Permittees shall co	omply with all requirements set forth in the 2101-M Pond
13	•	Closure Plan (Plan), fo	ound in Attachment 22, including the amendments specified in
14			preeable portions of the Plan are listed below (all subsections,
15		figures, and tables incl	uded in these portions are also enforceable):
16			·
17		Appendix A-I	Part A Permit Application, Form 3
18 19		Section I-3	2101 M Bond I costion and Council Bond is
20		Section 1-3	2101-M Pond Location and General Description
21		Section I-5	Security
22			
23		Chapter A	Closure Performance Standards
24 25		Chautau D	Contact of Class W
23 26		Chapter B	Content of Closure Plan
27		Chapter C	Certification of Closure
28		Chapter C	Community of Closure
29	V.7.B.	AMENDMENTS TO	THE APPROVED CLOSURE PLAN
30 31	V.7.B.a.	A written notification s	tating closure has been and will continue to be conducted in
32	V.7.D.a.	accordance with the Pla	an, including these conditions of the Plan, shall be submitted to
33		the Department within	30 days after the effective date of Revision 1 to this Permit.
34			-
35	V.7.B.b.	The Permittees shall no	tify the Department, in writing, if at any time it is determined
36		the clean closure levels	specified in this plan are exceeded.
37			
38	V.7.B.c.	The Permittees and the	independent, registered, professional engineer certification of
39		closure shall be prepare	ed and submitted to the Department by registered mail within 60
40		days of closure, as desc	cribed in the Plan. The Permittees shall continue to address the
41 42			ste management unit until receipt of the Departments written
42 43		nouncation stating the	unit is accepted as clean closed.
73			

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I			CHAPTER 8
2			
3		•	<
4		21	6-B-3 Expansion Ponds
5			(Clean Closed)
6		,	
7	T. 016 D 2 E		at a company of the c
8		-	going permanent closure activities. This unit was operated as a
9		usposai unit for dangerou	s waste. This chapter sets forth the closure requirements for
10	this TSD unit.		
11	V.8.A.	COMPLIANCE WITH	ADDROVED OF OCUDE DE AN
12	v.o.A.	COMPLIANCE WITH	APPROVED CLOSURE PLAN
13		The Downittees shall are	and with all manifestates and footh in the 216 D 2 Elements
14			an), found in Attachment 23, including the amendments
15 16			7.8.B. Enforceable portions of the Plan are listed below (all
17		_	tables included in these portions are also enforceable):
18		subsection, figures, and	tables included in these portions are also emorceable).
19		Part A Permit Applicati	On
20		rait A rennit Applican	Oil
21		Section 1,2	Closure Strategy
22		5000000 1,2	
23		Chapter 2.0	Facility Description and Location Information
24	•	•	
25		Chapter 5.0	Groundwater Monitoring
26		-	•
27		Chapter 6.0	Closure Performance Standards
28			
29		Chapter 7.0	Closure Activities
30		•	
31		Chapter 8.0	Postclosure Plan
32		•	
33	V.8.B.	AMENDMENTS TO T	HE APPROVED CLOSURE PLAN
34			
35	V.8.B.a.		ating closure has been and will continue to be conducted in
36			n, including these condition of the Plan, shall be submitted to
37		the Department within 3	0 days after the effective date of Revision 1 to this Permit.
38			
39	V.8.B.b.		g will continue in accordance with B Pond System groundwater
40			uarterly and annual groundwater monitoring reports for the
41		-	an shall continue to be submitted to the Department until
42			Main Pond is acknowledged by the Department in writing, or
43		as specified otherwise in	a postciosure permit.
44			i e e e e e e e e e e e e e e e e e e e

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I	V.8.B.c.	The Permittees shall notify the Department, in writing, if at any time it is determined
2		the clean closure levels specified in this plan are exceeded.
3		
4	V.8.B.d.	The Permittees and the independent, registered, professional engineer certification of
5		closure shall be prepared and submitted to the Department by registered mail with 60
6		days of closure as described in the Plan. The Permittees shall continue to address the
7		unit as a dangerous waste management unit until receipt of the Department's written
8		notification stating the unit is accepted as clean closed.
9		•
10	V.8.B.e.	The Permittees shall complete 216-B-3 expansion lobes closure activities within 180
11		days after the effective date of Revision 1 to this Permit.

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1		** **	CHAPTER 9
2			
3		: **	
4		- Hanford	d Patrol Academy Demolition Site
5		, v.,	•
6			•
7	The Hanford	Patrol Academy Demolit	tion Site (HPADS) is an inactive treatment unit which is currently
8	undergoing pe	ermanent closure activitie	es. This TSD unit was operated as an open burning/open
9	detonation un	it for dangerous waste.	This Chapter sets forth the closure requirements for this TSD
10	unit.	· ·	1
11		Þ€	
12	V.9.A.	COMPLIANCE WIT	TH THE APPROVED CLOSURE PLAN
13		÷	
14		The permittees shall o	comply with all the requirements set forth in the Hanford Patrol
15		Academy Demolition	Sites Closure Plan (Plan), as found in Attachment 24, including
16		the amendments speci	fied in condition V.9.B. Enforceable portions of the Plan are
17			sections, figures, and tables included in these portions are also
18		enforceable unless sta	
19		** 	,
20		Part A Application	
21			
22		Section 2.2.2	Facility Description and General Provisions
23		-	
24		Section 2.2.3	Description of Hanford Patrol Academy Demolition Sites
25			•
26		Section 2.24	Security Information
27			·
28		Chapter 3.0	Process Information
29			
30		Chapter 4.0	Waste Characteristics
31			
32		Chapter 5.0	Groundwater Monitoring
33			
34		Chapter 6.0	Closure Strategy and Performance Standards —
35			
36		Chapter 7.0	Closure Activities
37			
38		Chapter 8.0	Postclosure Plan
39			
40		Appendix 4A	Waste Inventories
41			
42		Appendix 7A	Quality Assurance Project Plan for Soil Sampling and
43			Analysis for the Hanford Patrol academy Demolition Sites
44			

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1		Appendix 7B	Training Course Descriptions
2			
3		Appendix 7C	Sampling and Analysis Plan
4	MOD		TIE ANDROVED CLOCIDE DI AN
5	V.9.B.	AMENDMENTS TO 1	HE APPROVED CLOSURE PLAN
6 7	V.9.B.a.	If alcours activities have	mat have and/or will not be conducted in accordance with
8	v.9. D .a.		not begun and/or will not be conducted in accordance with unit specific Conditions to the Plan, a written notification
9		•	Department within 30 days after the Plan is approved.
10		shan be sublifitied to the	Department within 30 days after the Flair is approved.
11	V.9.B.b.	The results of all sampli	ng required by this Plan shall be provided to the Department.
12	7.5.2.0.	-	ude the raw analytical data, a summary of analytical results, a
13			and a narrative summary with conclusions.
14			, , , , , , , , , , , , , , , , , , ,
15	V.9.B.c.	The Department shall be	e provided, for review and approval, a sampling plan and the
16		-	sampling event not addressed in the Plan which provides data
17			closure activities at least 30 days prior to initiating actual
18			results of this sampling shall be submitted to the Department.
19		These submittals shall in	nclude the raw analytical data, a summary of analytical results,
20		a data validation packag	e, and a narrative summary with conclusions.
21			
22	V.9.B.d.		ify the Department, in writing, if the action levels as defined in
23			are exceeded. The notification shall include a request to
24		<u> </u>	estigation to determine further sampling activities or remedial
25		actions.	
26 27	V.9.B.e.	The Domeittees and the i	udomoudomt unistand markeniand universalifications of
28	V.9.D.C.	•	ndependent, registered, professional engineer certifications of d and submitted to the Department by registered mail within 60
29			ribed in Section 6.3.2 of the Plan. The Permittees shall
30		-	ADS as a dangerous waste management unit until receipt of the
31			tification that HPADS is accepted as clean closed.
32		~ opmimione o minion not	minuted and the two is no open as crount or coord.
33	V.9.B.f.	The Permitees shall com	plete HPADS closure activities within 180 days after the
34		effective date of Revision	
35			

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1			CHAPTER 10						
2									
3									
4	105-DR Large Sodium Fire Facility								
5 .	•								
6									
7	The Large So	odium Fire Facility (LS	SFF) was a research laboratory used to conduct experiments for						
8	studying the	behavior of alkali meta	ds. This facility was also used for the treatment of alkali metal						
9	dangerous wa	astes. This chapter set	s forth the closure requirements for this TSD unit.						
10									
11	V.10.A.	COMPLIANCE W	ITH THE APPROVED CLOSURE PLAN						
12									
13		The Permittees sha	Il comply with all the requirements set forth in the Large Sodium						
14		Fire Facility Closu	re Plan (Plan), as found in Attachment 25, including the						
15		amendments specif	ied in Condition V.10.B. Enforceable portions of the Plan are listed						
16		below. (All subsec	tions, figures, and tables included in these portions are also						
17		enforceable unless	stated otherwise.)						
18			•						
19		Part A Application							
20									
21		Section 2.2	Unit Description and Operations						
22									
23		Section 2.3	Security Information						
24									
25		Chapter 4	Waste Characteristics						
26									
27		Chapter 6	Closure Strategy and Performance Standards						
28		a . -	•						
29		Chapter 7	Closure Activities						
30		O1 . 0							
31		Chapter 8	Postclosure						
32		A 11 10							
33		Appendix B	Sampling Locations						
34		A YP							
35 26	•	Appendix E	Quality Assurance Project Plan for Characterization and						
36 37			Verification Sampling at the Large Sodium Fire Facility						
38	V.10.B.	A MACKIEN ACKIEG E	TO THE ADDROVED OF ORIGINE DE AN						
38 39	γ.10. D .	AMENDIVICINIS	TO THE APPROVED CLOSURE PLAN						
40	V.10.B.a.	If alongs activities	have not become and/one-21 and be analysis 1 to a second						
40 41	v.10.D.a.		have not begun and/or will not be conducted in accordance with						
41°		shell be submitted	these unit specific Conditions to the Plan, a written notification						
42 43		shan be submitted t	to the Department within 30 days after the Plan is approved.						
+3									

44

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1	V.10,B.b.	The results of all sampling required by this Plan shall be provided to the Department.
2		This submittal shall include the raw analytical data, a summary of analytical results, a
3		data validation package, and a narrative summary of conclusions.
4		
5	V.10.B.c.	The Department shall be provided, for review and approval, a sampling plan and the
6		date of sampling for any sampling event not addressed in the Plan which provides data
7		used to support LSFF cleanup activities at least 30 days prior to initiating actual
8		sampling activities. The results of this sampling shall be submitted to the Department.
. 9		These submittals shall include the raw analytical data, a summary of analytical results,
10		a data validation package, and a narrative summary of conclusions.
11		
12	V.10.B.d.	The Permittees shall notify the Department, in writing, if the action levels cited in
13		Section 6.1.1 of the Plan cannot be achieved. The notification shall include either a
14		request for the Department's approval of alternative action levels or identify the
15		interim measures to be taken in the LSFF until closure activities are performed in
16		conjunction with the 100-DR-2 Operable Unit.
17		
18	V.10.B.e.	The Permittees and the independent, registered, professional engineer certifications of
19		closure shall be prepared and submitted to the Department by registered mail within 60
20		days of closure, as described in Section 7.9 of the Plan. The Permittees shall continue
21		to address LSFF as a dangerous waste management unit until receipt of the
22		Department's written notification that LSFF is accepted as closed.
23		·
24 25	V.10.B.f.	The Permittees shall complete LSFF closure activities within 240 days after the effective date of Revision 2 of this Permit.

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1			CHAPTER 11							
2										
3										
4	304 Concretion Facility									
5										
6										
7	The 304 Cond	cretion Facility (304 Fac	ility) was used for the treatment of dangerous wastes produced							
8	during the fue	el fabrication process. The	hese wastes consist of beryllium/Zircaloy-2 chips and Zircaloy-2							
9	chips and fine	S.								
10	V.11.A.	COMMITANCE WAT	TITTE INDOCUMENT OF COLUMN BY AND							
11 12	V.11.A.	COMPLIANCE WIT	H THE APPROVED CLOSURE PLAN							
13		The Domittees shell s	complements all the constitutions are South to the 201 Cl							
14			comply with all the requirements set forth in the 304 Concretion							
15		specified in Condition	(Plan), as found in Attachment 26, including the amendments V.2.B. Enforceable portions of the Plan are listed below. (All							
16		subsections figures	and tables included in these portions are also enforceable unless							
17		stated otherwise.)	and divides included in these portions are also emorceable timess							
18		January January								
19		Part A Application								
20			•							
21	•	Section 2.1	Description of the 304 Concretion Facility							
22			•							
23		Section 2.3	Security							
24										
25		Chapter 4	Waste Characteristics							
26		Olasa kara C								
27 28		Chapter 6	Closure Strategy and Performance Standards							
28 29		Chapter 7	Closure Activities							
30		Chapter /	Closure Activities							
31		Chapter 8	Postclosure							
32		Chapter o	Tostolosaro							
33		Appendix B	Random Sampling Locations							
34		••								
35		Appendix E	Personnel Training							
36			-							
37		Appendix F	Quality Assurance Project Plan for Sampling and Analysis							
38			for the 304 Concretion Facility Closure Activities							
39	3	4 1' 6	DI 70 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
40		Appendix G	Phase I Sampling and Analysis Plan for the 304 Concretion							
41			Facility Closure Activities							
42										
43										

44

35

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1 2	V.11.B.	AMENDMENTS TO THE APPROVED CLOSURE PLAN
3 4 5 6	V.11.B.a.	If closure activities have not begun and/or will not be conducted in accordance with the Plan, including these unit specific Conditions to the Plan, a written notification shall be submitted to the Department within 30 days after the Plan is approved.
7 8 9 10	V.11.B.b.	The results of all sampling required by this Plan shall be provided to the Department. This submittal shall include the raw analytical data, a summary of analytical results, a data validation package, and a narrative summary of conclusions.
11 12 13 14 15 16	V.11.B.c.	The Department shall be provided, for review and approval, a sampling plan and the date of sampling for any sampling event not addressed in the Plan which provides data used to support 304 Facility cleanup activities at least 30 days prior to initiating actual sampling activities. The results of this sampling shall be submitted to the Department. These submittals shall include the raw analytical data, a summary of analytical results, a data validation package, and a narrative summary of conclusions.
18 19 20 21 22 23 24 25	V.11.B.d.	Page 6-2, lines 12-13. Delete "Hanford Baseline Risk Assessment Methodology (DOE-RL 1992)" and replae with "Model Toxics Control Act (WAC 173-340). The Permittees shall notify the Department, in writing, if the action levels cited in Section 6.1 of the Plan are exceeded. The notification shall include a request for the Department's approval of alternative action levels or identify the interim measures to be taken in the 304 Facility until closure activities are performed in conjunction with the 300-FF-2 Operable Unit.
26 27 28 29 30 31	V.11.B.e.	The Permittees and the independent, registered, professional engineer certifications of closure shall be prepared and submitted to the Department by registered mail within 60 days of closure as described in Section 7.8 of the Plan. The Permittees shall continue to address the 304 Facility as a dangerous waste management unit until receipt of the Department's written notification that the 304 Facility is accepted as clean closed.
32 33 34	V.11.B.f.	The Permittees shall complete 304 Facility closure activities within 180 days after the effective date of Revision 2 of this Permit.

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ATTACHMENT 2

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PERMIT MODIFICATION SCHEDULE Attachment 27

Year and Mod.	TSD/Unit	*	Status and Remarks
1994 Mod. O	616 Storage Facility	В	In Rev. 0, Completed, approved
	305-B Storage Facility	В	In Rev. 0, Completed, approved
	183-H Solar Evaporation Basin	C	In Rev. 0, Completed approved
	300 Area Solvent Evaporator	CC	In Rev. 0, Completed, approved
	2727-S Storage Facility	CC	In Rev. 0, Completed, approved
1995 Mod. A	218-E-8 Borrow Pit Demolition Site	C	In Rev. 1, Completed, approved
	200 Area Ash Pit Demolition Site	C	In Rev. 1, Completed, approved
	216–B–3 Expansion Ponds	CC	In Rev. 1, Completed, approved
	2101 M Pond	С	In Rev. 1, Completed, approved
	Simulated High Level Waste Slurry Treatment &	CC	In Rev. 1, Completed, approved
	Storage		
1995 Mod. A'	Hanford Patrol Academy Demolition	C	In Rev. 2, Completed, approved
	105-DR Large Sodium Fire Facility	С	In Rev. 2, Completed, approved
	304 Concretion Facility	C	In Rev. 2, Completed, approved
1996 Mod. B	PUREX Tunnels 1 & 2	СВ	
	300 Area Process Trenches	C	
	3718-F Alkali Metal Treatment	C	
	4843 Alkali Metal Storage	С	,
1997 Mod. C	303-K Storage Facility	С	
	300 Waste Acid Treatment & Storage	С	
	325 Hazardous Waste Treatment Unit	В	
	200 Area Liquid Waste Complex	В	
	216-U-12 Crib	C	
	Low Level Burial Grounds	В	
1998 Mod. D	100 D Ponds	C	
•	1324-N Surface Impoundment	С	
	1324-NA Percolation Pond	С	
	Hanford Central Waste Complex	В	
	Waste Receiving & Processing (1)	В	
1999 Mod. E	222-S Laboratories	В	
	Double Shell Tank System	В	·
	1325-N Liquid Waste Disposal	C	
	1301-N Liquid Waste Disposal	С	
	Transuranic Storage and Assay Facility	В	
2000 Mod. F.	216-B-3 Main Pond	C	
- -	216-B-63 Trench	C	
	216-A-29 Ditch	Ċ	

Legend:

C - Closure/PostClosure Plan

* - Type of Permit C - Closure/PostClo B - Part B Application CC - Clean Closed

Note:

- 1. All TSD Units not shown in this table will be scheduled through a Class 1 Permit Modification (requiring prior approval) to Attachment 27.
- 2. All Permit Modifications listed in this table will be conducted in accordance with the applicable requirements in WAC 173-303-830.
- 3. New TSD Part B Applications, if submitted, will be added to this table through a Class 1 Permit Modification (requiring prior approval).

[▽] Closure plan/Postclosure plan to go through public comment in conjunction with 300-FF-1 O.U.

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ATTACHMENT 3

Permit Applicability Matrix

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HANFORD FACILITY WIDE PERMIT (REV. 2) ATTACHMENT 3

PERMIT APPLICABILITY MATRIX

Updated August 28, 1995

	CONDITION		(CATE	GOR	Y	QUALIFIERS	
PART	TITLE	A	B ¹	C ²	D ³	E	F	
			PARTI					
I.A. 19199	EFFECT OF PERMIT				2202002000			
I.A.1.a.		*	*	*	*	*	*	·
I.A.1.b.		*	*	*	*	*	*	
I.A.2.		*	*		*	*	*	
I.A.3.	Coord. w/ FFACO		*		*	*	*	
I.B.	PERSONAL & PROPERTY RIGHTS		*		*.	, *	*	
I.C.	PERMIT ACTIONS	· ·	[N.]			,		
I.C.1.	Modification, Revocation, Reissuance, or Termination		*		*	*	*	
I.C.2.	Filing of a Request		*		*	*	*	
I.C.3.	Modifications		*		*	*	*	
I.D.	SEVERABILITY						720.	
I.D.1.	Effect of Invalidation		*		*	*	*	
I.D.2.	Final Resolution		*		*.	*	*	
I.E.	DUTIES & REQUIREMENTS							
I.E.1.	Duty to Comply	1	*		*	*	*	
I.E.2.	Compliance Not Constituting Defense		*		*	*	*	
I.E.3.	Duty to Reapply		*		*	*	*	
I.E.4.	Permit Expiration & Continuation		*		*	*	*	
I.E.5.	Need to Halt or Reduce Activity Not a Defense		*		*	*	*	
I.E.6.	Duty to Mitigate		*		*	*	*	
I.E.7.	Proper Operation & Maintenance		*	<u> </u>		*	*	

- A. Leased Land
- B. North Slope and ALE
- C. Interim Status TSD Units

- D. Areas Between TSDs (excluding A and B)
- E. TSD Unit Closures (in Part V)
- F. TSD Operating Units (In Part III)
- * Condition applies to this category, as modified by applicable footnotes and qualifiers
- 1 For Category B, Part 1 Conditions only apply if future TSD ativities are begun on the North Slope or ALE.
- 2 For Category C, all Part I Condition apply to activities subject to Conditions II.U. and II.V.
- 3 For Category D, Part I Conditions only apply to activities subject to Conditions !!.A., !!.C., !!.D.4., II.G., II.I., II.L.3., II.O., II.Q., II.S. II.T., and II.X.

HANFORD FACILITY WIDE PERMIT (REV. 2) ATTACHMENT 4

PERMIT APPLICABILITY MATRIX

Updated August 28, 1995

	CONDITION		(CATE	GORY	Y		QUALIFIERS
PART	TITLE	A	B ¹	C ²	\mathbf{D}^3	E	F	
I.E.8.	Duty to Provide Information		*		*	*	*	
I.E.9.	Inspection & Entry		*		*	*	*	1
I.E.10.	Monitoring & Records		*		*	· *	-00. ★ .1.	
I.E.10.a.		"	*		*	*	*	0.0003 50.88 00.350
I.E.10.b.			*		*	*	*	
I.E.10.c.			*		*	*	*	
I.E.10.d.			. *		*	*	*	
I.E.10.e.			*		*	*	*	· · · · · · · · · · · · · · · · · · ·
I.E.11.	Reporting Planned Changes		*	 		*	*	****
I.E.12.	Certification of Construction or Modification	<u></u>	*				*	
I.E.13.	Anticipated Non-Compliance	-	*		*	*	*	,
I.E.14.	Transfer of Permits	-	*			*	*	
I.E.15.	Immeidate Reporting	,		in in it.				
I.E.15.a.			*		*	*	*	
I.E.15.b.			*		*	*	*	
I.E.15.c.			*		*	*	*	
I.E.15.d.			*		*	*	*	
I.E.15.e.		•	*		*	*	*	
I.E.16,	Written Reporting		*		*	*	*	
I.E.17.	Manifest Descrepency Report	ji Li	11.			50 T		
I.E.17,a.			*	 		*	*	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
I.E.17.b.			*		*	*	*	
I.E.18.	Unmanifested Waste Report		*			*	*	
I.E.19.	Other Non-Compliance		*		*	*	*	= ;
I.E.20.	Other Information		*		*	*	*	
I.E.21.						•		

- A. Leased Land
- B. North Slope and ALE
- C. Interim Status TSD Units

- D. Areas Between TSDs (excluding A and B)
- E. TSD Unit Closures (in Part V)
- F. TSD Operating Units (In Part III)
- * Condition applies to this category, as modified by applicable footnotes and qualifiers

HANFORD FACILITY WIDE PERMIT (REV. 2) ATTACHMENT 4

PERMIT APPLICABILITY MATRIX

Updated August 28, 1995

		(CATE	GOR	Y	QUALIFIERS		
PART	TITLE	A	$\mathbf{B^1}$	C ²	\mathbf{D}^3	E	F	
I.E.22.	Annual Report		*		*	*	*	
I.F.	SIGNATORY REQUIREMENT		*	 	*	*	*	,
I.G.	CONFIENTIAL INFORMATION	<u> </u>	*		*	*	*	
I.H.	DOCUMENTS TO BE MAINTAINED AT FACILITY SITE	 	*		*	*	*	
	CONDITION		(CATE	GOR	Y	 	QUALIFIERS
PART	TITLE	A	В	C	D	E	F	
		1	PARTI	1				
II.A.	FACILITY CONTINGENCY PLAN							
II.A.1.		 	<u> </u>		*	*	*	For Category D, II.A. Conditions
II.A.2.		<u> </u>	 	-	*	*	*	only apply to releases of
II.A.3.					*	*	*	hazardous substances which
II.A.4.			_		*	*		threaten human health or the
II.A.5.			 		*	*	*	environment.
II.B.	PREPAREDNESS & PREVENTION		ļ .					
II.B.1.						*	*	
II.B.2.						*	*	
II.B.3.						*	*	
II.B.4.						*	*	
II.C.	PERSONNEL TRAINING	1 1 2	1	S.		7.0		
II.C.1.	The state of the s		<u> </u>			*	*	141 - 141 -
II.C.2.					*	*	*	
II.C.3.			 			*	*	
II.C.4.					*	*	*	For Category D, Condition II.C.4. will not apply to unrestricted (publicly accessible) areas.
II.D.	WASTE ANALYSIS			į.	14.1		, , ;	kapul bakhagaikina

- A. Leased Land
- B. North Slope and ALE
- C. Interim Status TSD Units

- D. Areas Between TSDs (excluding A and B)
- E. TSD Unit Closures (in Part V)
- F. TSD Operating Units (In Part III)
- * Condition applies to this category, as modified by applicable footnotes and qualifiers

HANFORD FACILITY WIDE PERMIT (REV. 2) ATTACHMENT 4

PERMIT APPLICABILITY MATRIX

Updated August 28, 1995

CONDITION			(CATE	GOR	QUALIFIERS		
PART	TITLE	A	В	C	D	E	F	
II.D.1.				Ì		*	*	
II.D.2.				1.	 	*	* -	
II.D.3.				 		*	*	
II.D.4.				ļ	*		1	
П.Е.	QA/QC		 		 			
II.E.I.			 			*	*	
II.E.2.				 		*	*	
II.E.3.				 		*	*	
II.E.4.					 	*	*	
II.E.5.		_	 			*	*	
II.F.	GW AND VADOSE ZONE MONITORING					*	*	
II.F.1.	Purgewater Management					*	*	
II.F.2.	Well Remediation & Abandonment		, i				1	
II.F.2.a.				<u> </u>		*	*	, , , , , , , , , , , , , , , , , , ,
II.F.2.b.						*	*	
II.F.2.c.						*	*	
II.F.2.d.						*	*	
II.F.3.	Well Construction					*	*	· · · · · · · · · · · · · · · · · · ·
II.G.	SITING CRITERIA				*		*	For Category D, Condition II.G. only applies if a new TSD unit is to be sited.
II.H.	RECORDKEEPING & REPORTING	<u> </u>		ŀ				
П.Н.1.	Cost Estimate for Facility Closure		1			*	*	The second secon
II.H.2.	Cost Estimate for Postclosure Monitoring & Maintenance					*	*	
II.H.3.						*	*	
II.I.	FACILITY OPERATING RECORD					1.1		

- A. Leased Land
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HANFORD FACILITY WIDE PERMIT (REV. 2) ATTACHMENT 4

PERMIT APPLICABILITY MATRIX

Updated August 28, 1995

		(CATE	GOR	QUALIFIERS			
PART	TITLE	A	В	C	D	E	F	
II.I.1.		*	*		*	*	*	For Category D, II.I Conditions
II.I.1.a.		*	*		*	*	*	only apply to activities subject
II.I.1.b.							*	to this Permit as defined by this
II.I.1.c.					*	*	*	matrix.
II.I.1.d.						*	*	
II.I.1.e.	,		*		*			For Category E, Condition
II.I.1.f.					*	*	*	applicability to be specified
II.I.1.g.						*	*	in Part V.
II.I.1.h.	Condition Reserved							
II.I.1.i.						*	*	Condition II.I. only applies to
II.I.1.j.						*	*	existing records and records
II.I.1.k.					*	*	*	prepared after the date of Permit
II.I.1.1.	Condition Reserved							issuance.
II.I.1.m.						*	*	
II.I.1.n.					*	*	*	1
II.I:1.o.	Condition Reserved							1
II.I.1.p.			*		*	*	*	-
II.I.1.q.			*		*	*	*	<u>-</u>
II.I.I.r.					*	*	*	
II.I.1.s.					*	*	*	
II.I.1.t.			<u> </u>		*	*	*	,
II.I.2.		*	*		*	*	*	
II.J.	FACILITY CLOSURE							
II.J.1.				,		*	*	
II.J.2.						*	*	,
II.J.3.						*	*	

- A. Leased Land
- B. North Slope and ALE
- C. Interim Status TSD Units

- D. Areas Between TSDs (excluding A and B)
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- F. TSD Operating Units (In Part III)

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HANFORD FACILITY WIDE PERMIT (REV. 2) ATTACHMENT 4

PERMIT APPLICABILITY MATRIX

Updated August 28, 1995

CONDITION			(CATE	GOR	Y	QUALIFIERS	
PART	TITLE	A	В	C	D	E	F	
II.J.4.						*	*	
П.К.	SOIL/GW CLOSURE PERFORMANCE STANDARDS							
II.K.1.						*	*	
II.K.2.				<u> </u>		*	*	
II.K.3.						*	*	
II.K.4.						*	*	
II.K.5.						*	*	
II.K.6.						*	*	
II.K.7.					 	*	*	
П.L.	DESIGN & OPERATION OF FACILITY		X :	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Ž , L	ŷ.	
II.L.i.	Proper Design and Construction	<u> </u>		1 E 9/1/24 1 1 8	1	*	*	Condition II.L.2. only applies to
II.L.2.	Design Changes, Nonconformance, & As- Built Drawings					*	*	Category E if it is a landfill closure.
II.L.3.	Facility Compliance			1	*	*	*	
II.M.	SECURITY					*	*	
II.N.	RECEIPT OF DANGEROUS WASTES GENERATED OFF-SITE		1: : .			:		
II.N.1.	Receipt of Off-Site Waste				<u> </u>	\ <u></u>	*	
II.N.2.	Waste From Sources Outside the U.S.						*	,
II.N.3.	Notice to Generator						*	
II.O.	GENERAL INSPECTION REQUIREMENTS				11. 14 14.			
II.O.I.					*			
II.O.2.					*		 	,
II.O.3.					*			
II.P.	MANIFEST SYSTEM					3	 	
II.P.1						*	*	10 10 10 10 10 10 10 10 10 10 10 10 10 1

CATEGORIES ARE DEFINED AS FOLLOWS:

A. Leased Land

D. Areas Between TSDs (excluding A and B)

B. North Slope and ALE

E. TSD Unit Closures (in Part V)

C. Interim Status TSD Units

F. TSD Operating Units (In Part III)

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HANFORD FACILITY WIDE PERMIT (REV. 2) ATTACHMENT 4

PERMIT APPLICABILITY MATRIX

Updated August 28, 1995

CONDITION			(CATE	GORY	QUALIFIERS		
PART	TITLE	A	В	C	D	E	F	
II.P.2.			<u> </u>			*	*	
П.Q.	ON-SITE TRANSPORTATION	'4 "			# 1 3			
II.Q.1.					*	*	*	
II.Q.2.	,				*	*	*	
II.R.	EQUIVALENT MATERIALS				1 2			1 84
II.R.1.				 		*	*	9 000 1 00 1 10 00 10 00 00 00 00 00 00 0
II.R.2.		~			1	*	*	
II.R.3.					1	*	*	-
II.S.	LAND DISPOSAL RESTRITIONS				*	*	*	
II.T.	ACCESS & INFORMATION			 	*	*	*	
II.U.	MAPPING OF UNDERGROUND PIPING		1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 :	3.1	8 44			
II.U.1.				*		*	*	
II.U.2.				*		*	*	
II.U.3.				*		*	*	
II.U.4.				*		*	*	
II.V.	MARKING OF UNDERGROUND PIPING			*		*	*	
II.W.	OTHER PERMITS AND/OR APPROVALS			1 1 1	,,			
II.W.1.						*	*	
II.W.2.					,	*	*	
II.W.3.						*	*	
II.X.	SCHEDULE EXTENSIONS			-				
II.X.1.				*	*	*	*	Condition II.X. only applies to Category C if activities are subject to Conditions II.U. and II.V.
II.X.2.				*	*	*	*	Condition II.X. only applies to Category D if activities are subject to this Permit as defined by this matrix.

- A. Leased Land
- B. North Slope and ALE
- C. Interim Status TSD Units

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- F. TSD Operating Units (In Part III)

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HANFORD FACILITY WIDE PERMIT (REV. 2) ATTACHMENT 4 PERMIT APPLICABILITY MATRIX

EXIMIT MILE CADIBITION

Updated August 28, 1995

CONDITION			(CATE	GOR	Y	QUALIFIERS	
PART	TITLE	A	В	C	D	E	F	
	,	ARTS	III. IV,	AND	V			
III.	UNIT SPECIFIC CONDITIONS FOR FINAL STATUS OPERATIONS						3 2 3 3 1 38 2 3 3 3 3 3 3 3 3 3	
III.1.A.	616 NRDWSF COMPLIANCE WITH APPROVED PERMIT APPLICATION						*	,
III.1.B.	AMENDMENTS TO THE APPROVED PERMIT APPLICATION						*	
III.2.A.	305-B COMPLIANCE WITH APPROVED PERMIT						*	
III.2.B.	AMENDMENTS TO THE APPROVED PERMIT APPLICATION						*	
IV.	CORRECTIVE ACTIONS FOR PAST PRACTICE	*	*		*			
V.	UNIT SPECIFIC CONDITIONS FOR UNITS UNDERGOING CLOSURE		·					
V.1.A.	183-H BASINS COMPLIANCE WITH APPROVED CLOSURE PLAN					*		**************************************
V.1.B.	AMENDMENTS TO THE APPROVED CLOSURE PLAN					*		
V.2.A.	300 ASE COMPLIANCE WITH APPROVED CLOSURE PLAN					*		
V.2.B.	AMENDMENTS TO THE APPROVED CLOSURE PLAN					*		
V.3.A.	2727-S COMPLIANCE WITH APPROVED CLOSURE PLAN					*		
V.3.B.	AMENDMENTS TO THE APPROVED CLOSURE PLAN					*		
V.4.A.	SHLWS COMPLIANCE WITH APPROVED CLOSURE PLAN					. *		
V.4.B.	AMENDMENTS TO THE APPROVED CLOSURE PLAN					*		,
V.5.A.	218 BPDS COMPLIANCE WITH APPROVED CLOSURE PLAN					*		
V.5.B.	AMENDMENTS TO THE APPROVED CLOSURE PLAN					*		
V.6.A.	200 APDS COMPLIANCE WITH APPROVED CLOSURE PLAN					*		
V.6.B.	AMENDMENTS TO APPROVED CLOSURE PLAN					*		, , , , , , , , , , , , , , , , , , , ,

- A. Leased Land
- B. North Slope and ALE
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- D. Areas Between TSDs (excluding A and B)
- E. TSD Unit Closures (in Part V)
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HANFORD FACILITY WIDE PERMIT (REV. 2) ATTACHMENT 4

PERMIT APPLICABILITY MATRIX

Updated August 28, 1995

CONDITION			(CATE	GOR	QUALIFIERS		
PART	TITLE	A	В	C	D	E	F	
V.7.A.	2101-M POND COMPLIANCE WITH APPROVED CLOSURE PLAN					*		
V.7.B.	AMENDMENTS TO APPROVED CLOSURE PLAN				_	*		
V.8.A.	B PONDS COMPLIANCE WITH APPROVED CLOSURE PLAN					*		
V.8.B.	AMENDMENTS TO APPROVED CLOSURE PLAN					*		
V.9.A.	HPADS COMPLIANCE WITH APPROVED CLOSURE PLAN					*		
V.9.B.	AMENDMENTS TO APPROVED CLOSURE PLAN				1¥£	d'il	1	
V.10.A.	105-DR LARGE SODIUM FIRE FACILITY COMPLIANCE WITH APPROVED CLOSURE PLAN		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-1-		*		
V.10.B.	AMENDMENTS TO APPROVED CLOSURE PLAN					*		
V.11.A.	304 CONCRETION FACILITY COMPLIANCE WITH APPROED CLOSURE PLAN					*		
V.11.B.	AMENDMENTS TO APPROVED CLOSURE PLAN					*		

CATEGORIES ARE DEFINED AS FOLLOWS:

A. Leased Land

B. North Slope and ALE

C. Interim Status TSD Units

D. Areas Between TSDs (excluding A and B)

E. TSD Unit Closures (in Part V)

F. TSD Operating Units (In Part III)

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